

Marking Systems Tools Mounting Material

2013 / 2014

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1 PCB connection technology and electronics housing

- PCB terminal blocks and plug-in connectors
- Electronics housing



2 Connection technology for field devices

- Plug-in connectors
- Cables and connectors



3 Modular terminal blocks

- Modular terminal blocks



4 Sensor/actuator cabling and industrial plug-in connectors

- Sensor/actuator cabling
- Cables and connectors
- Plug-in connectors



5 Marking systems, tools, and mounting material



6 Surge protection and power supply units

- Lightning monitoring system
- Surge protection and interference filters
- Power supply units and UPS
- Protective devices



7 Interface technology and switching devices

- Electronic switching devices and motor control
- Measurement and control technology • Monitoring
- Relay modules • System cabling for controllers



8 Control technology, I/O systems and automation infrastructure

- Ethernet networks • Functional safety • HMIs and industrial PCs • I/O systems
- Industrial lighting and signaling • Industrial communication technology
- Fieldbus components and systems • Wireless data communication
- Process infrastructure • Software • Controllers

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Marking systems, tools, mounting material

Product range in pictures

Planning and marking software



Planning and marking software
CLIP PROJECT Page 24

Printers - MARKING system



BLUemark CLED for printing UniCard materials - as easy as printing on paper
BLUemark CLED Page 33



Printer set
BLUemark CLED SET Page 33



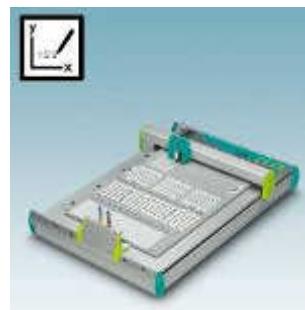
Thermal transfer printer for printing with segmented multi-ink ribbons
THERMOMARK CARD PLUS Page 34



Thermal transfer printer for roll material
THERMOMARK X1.2 Page 42



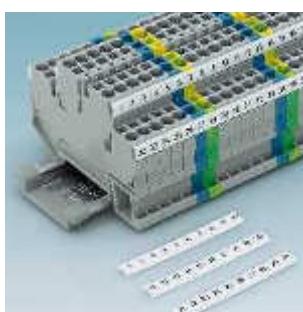
Thermal transfer printer for shrink sleeves (double-sided printing possible)
THERMOMARK W2 Page 43



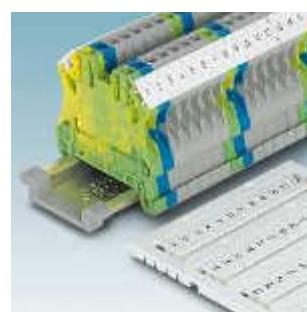
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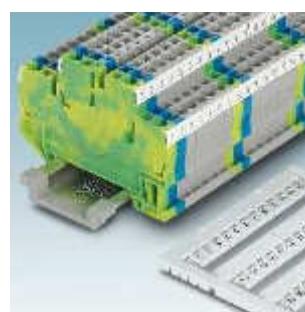
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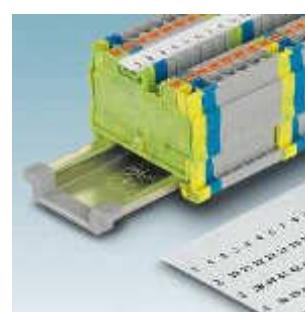
Zack marker strip terminal marking for tall and flat marker groove, for printing with plotter
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UniCard terminal marking for a tall marker groove, for printing with
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UniCard terminal marking for tall and flat marker groove, for printing with
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UniSheet terminal marking for a universal marker groove, for printing with
THERMOMARK CARD US-TM... Page 90

Conductor and cable marking - MARKING system



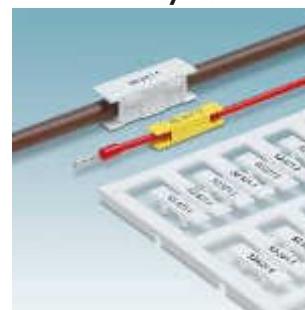
Group marking Page 108



UniCard marking for terminal blocks from other manufacturers, for printing with BLUemark and THERMOMARK CARD
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Aluminum cable marking for assembly with cable binders, for printing with BLUemark
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UniCard clip-on conductor marking, for printing with BLUemark
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Thermal transfer printer for printing plastic material in UCT and US format
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Thermal transfer printer for roll material
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Thermal transfer printer for roll material
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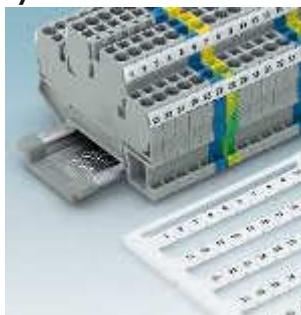


Thermal transfer printer sets
MARKING BOX
Page 40

Terminal marking - MARKING system



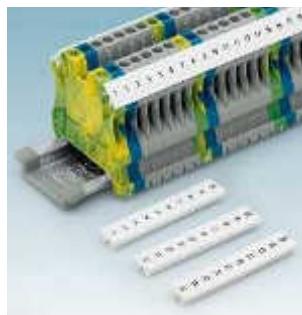
UniCard terminal marking for a tall marker groove, for printing with BLUEMARK
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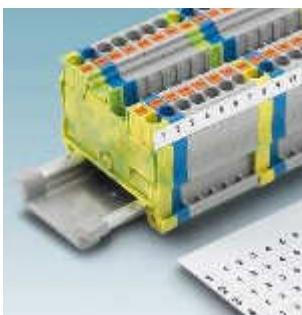
UniCard terminal marking for tall and flat marker groove, for printing with BLUEMARK
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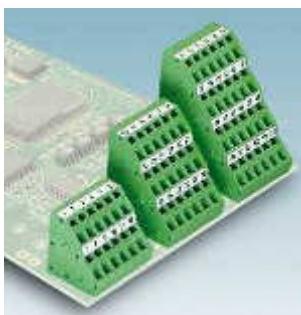
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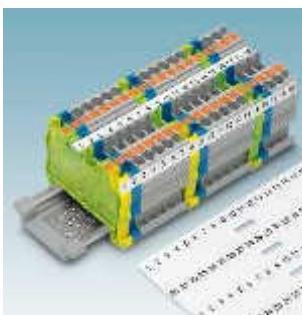
Zack marker strip terminal marking for a tall marker groove, for printing with plotter
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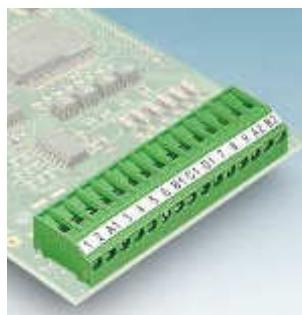
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Self-adhesive marker strips for terminal blocks without a marker groove, for printing with
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Self-adhesive marker strips for terminal blocks without a marker groove, for printing with
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Conductor marking with ferrules that can be labeled, for printing with BLUEMARK
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UniCard conductor marking for marking collars, for printing with BLUEMARK
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Marking systems, tools, mounting material

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UniCard device marking for screwing or riveting, for printing with BLUEMARK UC-EMSP...
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Device marking for snapping into marker carriers, for printing with THERMOMARK CARD P-SS-ZB.../ P-ZB...
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Stick-on device marking and additional screws or rivets, for printing with THERMOMARK CARD US-EMLSP...
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Conductor marking for threading, for printing
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UniCard snap-in device marking, for printing
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UniSheet stick-on device marking, for printing
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UniSheet device marking that can be
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Stick-on device marking, for printing with
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Marking systems, tools, mounting material

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Cable cutter with ratchet function for minimum effort CUTFOX... Page 364



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WIREFOX stripping tools WIREFOX... Page 378



WIREFOX stripping tool WIREFOX-D... Page 386



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Magnetic label, unprinted, for printing with THERMOMARK ROLL...
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CUTFOX cable duct cutter
CUTFOX-CD
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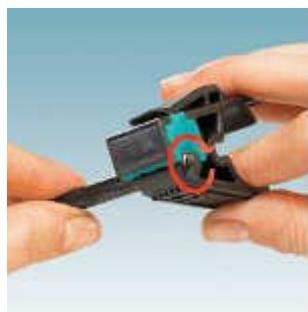
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MICROFOX pliers for all electronics applications
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Stripping tool for solar cables
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CRIMPHANDY - portable hand-held machine, for stripping and crimping in just one step
CRIMPHANDY
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CRIMPFOX crimping pliers for ferrules
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Crimping pliers for connectors
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Marking systems, tools, mounting material

Product range in pictures



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CRIMPFOX-C50

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Crimping pliers for solar connectors
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Digital current probe multimeter
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Tool sets
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Ferrules, slip-on sleeves, cable lugs,
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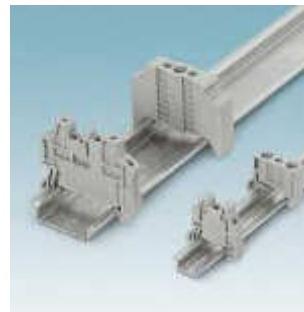
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SCREWFOX cordless screwdrivers
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SCREWFOX preset torque screwdrivers
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Automatic devices - TOOL fox



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Portable crimping machine for ferrules, cable lugs, and connectors
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Europe terminal blocks and junction box connectors
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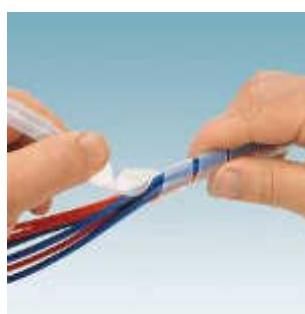
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Plastic cable markers for insert labels
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Cable binders
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Marking systems, tools, and mounting material

Optimize all of the processes involved in the setup, installation, and maintenance of your control cabinets and switchgear. We can help you achieve this with perfectly co-ordinated products from our marking, tool, and mounting material ranges. In this catalog you will find everything you need for marking, securing, and mounting your control cabinet components.





MARKING system

MARKING system provides the perfect solutions for terminal, conductor, cable, device, and system marking. It places at your disposal the CLIP PROJECT planning and marking software, various printing systems, and a wide variety of marking materials.

TOOL fox

TOOL fox is the complete range of professional processing and measuring tools. Designed for use in all processes in electrical engineering, the tools and automatic devices impress with their optimum handling and quality.

CABINET add-on

CABINET add-on stands for modern control cabinet technology. DIN rails and end brackets ensure the secure attachment of terminal boards and modules, while shield connection clamps guarantee EMC-compliant system wiring and cable ducts bring order to the control cabinet.

Service

Choose the complete range. Working to your specifications, we will manufacture and label terminal strips and complete terminal boxes or modules for direct installation in your application.

MARKING system

MARKING system is the intelligent solution for quick and easy terminal, conductor, cable, device, and system marking. The marking data is transferred from the CLIP PROJECT planning and marking software to the printers at the click of a mouse. Whether your printing system involves a BLUEMARK CLED high-speed printer, a thermal transfer printer or a plotter, a wide range of marking material is available.



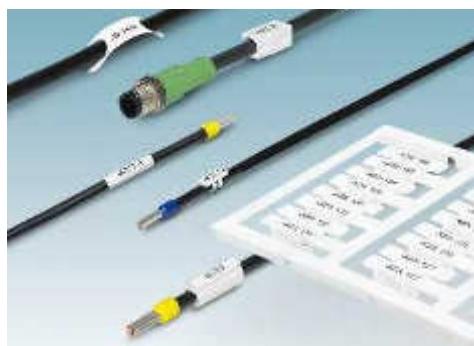
Terminal marking

Terminal markers are available marked and unmarked in UniCard and UniSheet format as well as in roll and sheet form. Our marking service also enables terminal markers to be printed according to customer specifications.



Conductor and cable marking

Conductors and cables can be marked in numerous different ways. The markers can either be threaded on, pushed on, clipped on, adhered in place or attached with cable binders. They are available unprinted or can be ordered from our marking service printed according to customer specifications.



Device marking

Various device markers are available for the optimum and individual marking of control cabinets, switchgear, and their components. Our marking service also enables markers to be printed according to customer specifications.



System marking

Numerous safety markings are available for the clear and comprehensive marking of systems. These are available unprinted or can be custom-printed by our marking service according to customer specifications.



TOOL fox

TOOL fox consists of the full range of professional processing and measuring tools for all electrical engineering applications. The ergonomically designed tools for cutting, stripping, crimping, screwing, and testing impress with their optimum handling and quality. Specially hardened tool steels ensure maximum durability. Cutting devices, stripping machines, and crimping machines can be used to automate work steps.



Cutting tools

The use of professional cutting tools should result in a precise intersection without deforming the conductor. Our precision cutting tools meet this requirement and are suitable for cables up to 100 mm in diameter.



Stripping tools

Correct stripping and dismantling can only be achieved with professional stripping tools. Special geometries and hardened blades ensure accurate results every time. Automatic conductor cross section setting provides reliable protection against damage to the conductors.



Crimping tools

Once they have been stripped, cable ends can be equipped with various ferrules and a range of connectors. Professional crimping pliers are available for this purpose. These guarantee long-term, stable, and gas-tight high-quality crimping for all conductors and cables up to 120 mm².



CABINET add-on

CABINET add-on stands for modern control cabinet technology which ensures that control cabinets and switchgear can be set up quickly and take up as little space as possible. DIN rails and end brackets ensure the secure attachment of electrical connecting elements and components. Shield connection clamps guarantee EMC-compliant system wiring. The cable management product range spans from the innovative CES space- and cost-saving cable entry system, across the extensive range of cable protection systems and cable ducts, right up to cable binders for every application.



Component mounting

You can save time when securing electrical connections and components in switchgear by using suitable mounting devices. In addition, you can make optimum use of the space in the control cabinet by combining mounting accessories.



Shielding

A wide selection of shield connection clamps, neutral busbars, and supports guarantees that the wiring of the control cabinet or the switch system complies with EMC regulations and also ensures optimum wiring convenience.



Cable entry system

The CES cable entry system allows you to insert a variety of pre-assembled conductors, cables, and protective hoses into areas with limited space in control cabinets, distributor boxes or devices, in a way which protects them against water and dust.



Cable bundling and cable routing

Use cable ducts to bring order to your control cabinet. Cable clamps are used to fix the cables running from the field. The conductors are bundled together quickly and easily using plastic cable markers and routed into the cable ducts. Protective hoses provide the right cable protection for every application.



Our services

At Phoenix Contact, trendsetting products are complemented by a comprehensive range of services. Wherever you are in the world, our global network means that you can rely on our service. Being at home all over the world and speaking the language of the user is what we understand by customer proximity. We live up to this with more than 40 Phoenix Contact subsidiaries and in excess of 30 representatives in other countries.



Terminal strip production

Pre-assembled terminal strips enable you to both streamline your process sequences and save installation time. We supply your terminal strips fully labeled.



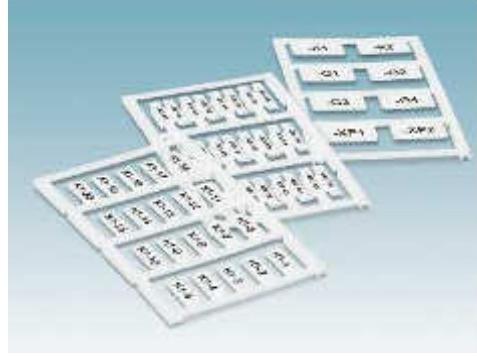
Control box production

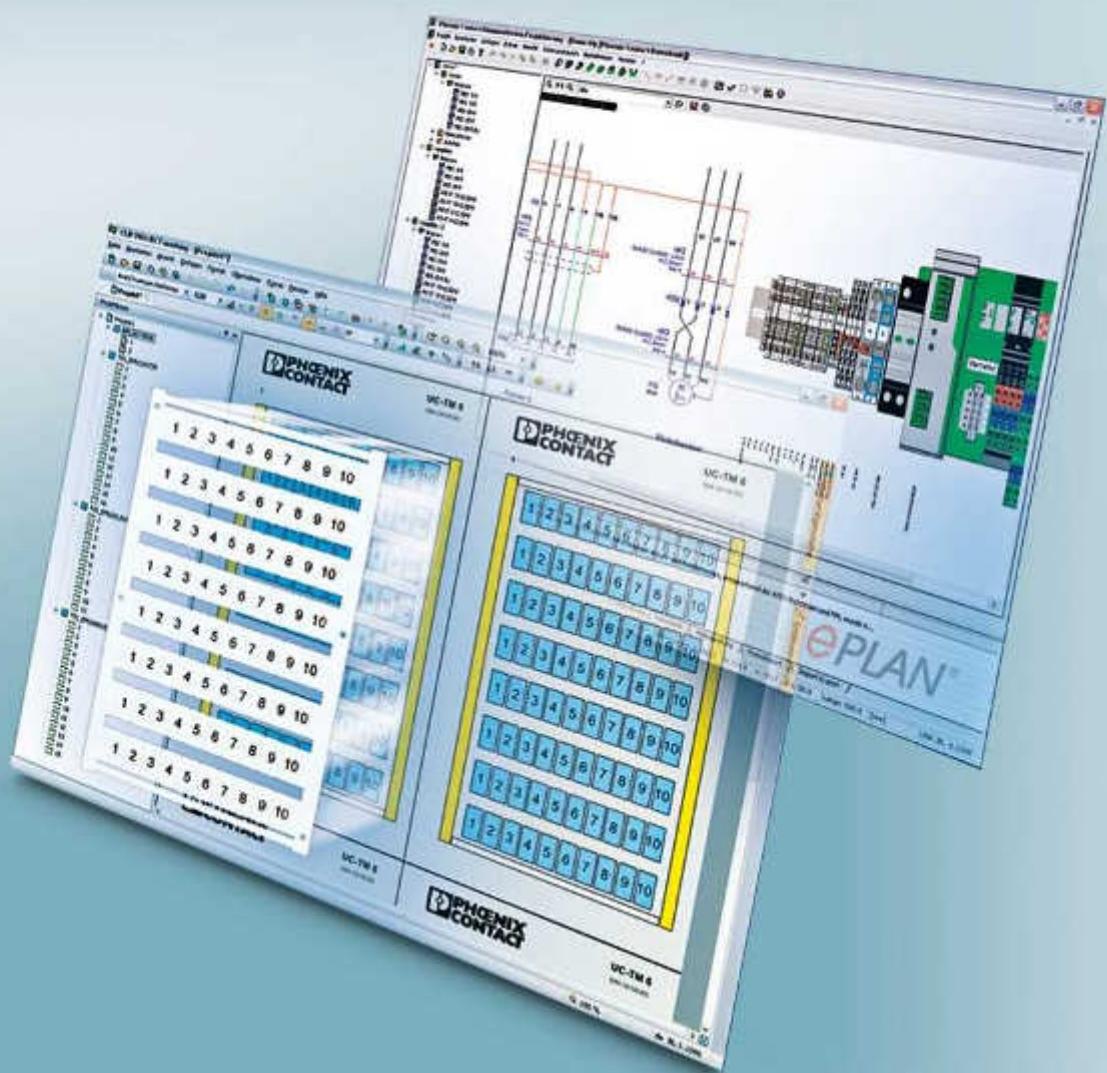
We can produce fully assembled control boxes to your specifications. Our service even includes putting together custom product sets.



Labeling service

With CLIP PROJECT, the planning and marking software, you can create labels to suit your wishes. Just use the built-in e-mail function to send the data to us, and we will deliver ready-printed marking materials directly to your production facility. Quick and easy – all you have to do is mount the materials.





Planning and marking software - CLIP PROJECT

The CLIP PROJECT software consists of two modules:

- CLIP PROJECT Planning enables the quick and convenient planning and configuration of fault-free terminal strips.
- CLIP PROJECT Marking is a powerful piece of software for the creation of individual labels for terminal blocks, cables, lines, devices, and systems.

Thanks to the optimum interaction between the two modules, even in connection with electrical planning systems, the result is an end-to-end process chain: from planning and documentation, right up to the finished terminal strip or the finished marking.

The advanced version, CLIP PROJECT professional, also features an efficient template designer, which can be used to design custom labels.

Product range overview

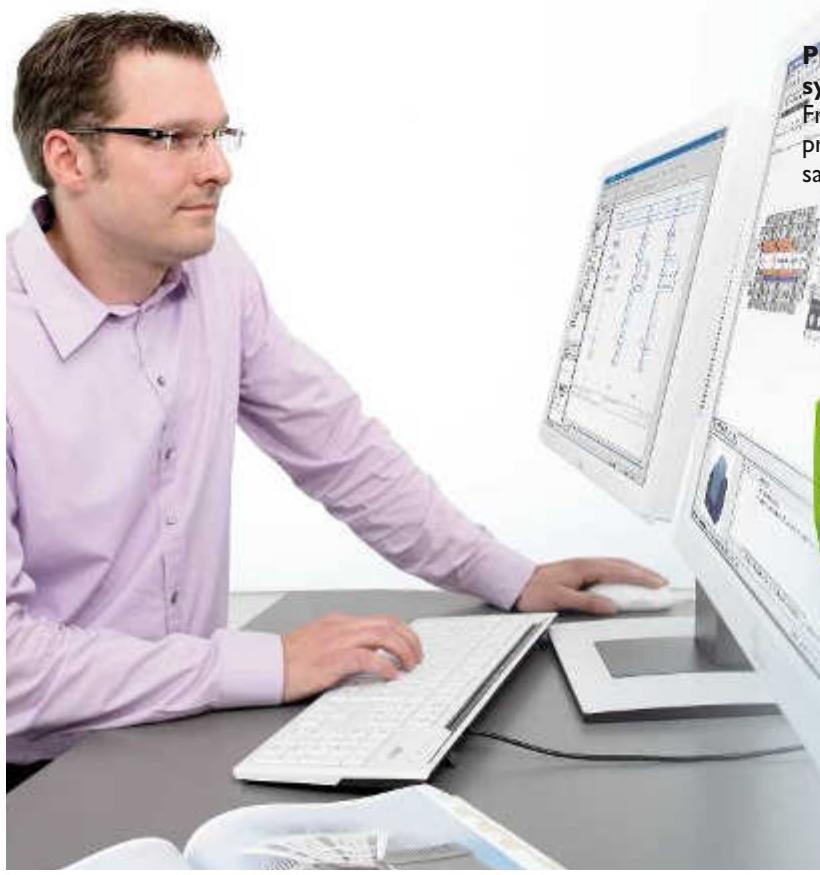
CLIP PROJECT planning and marking software	22
CLIP PROJECT advanced	26
CLIP PROJECT professional	27

A consistent system from configuration through to the finished application

CLIP PROJECT combines the proven planning software for terminal strip configuration with a high-performance marking tool. Direct data exchange with all conventional CAE programs, along with the creation of the complete project documentation, are what make this configuration software unique. CLIP PROJECT provides the perfect output devices and marking materials for terminal, conductor, device, and system marking. Quite simply, it is a single piece of software that is compatible with all printing systems and can be used to label any type of application.

Configuration ...

Production ...



Printing systems

From high-speed printers to universal lists.



... Mounting

Complete documentation
CLIP PROJECT creates complete order, parts, structure, and mounting lists at the click of a mouse.

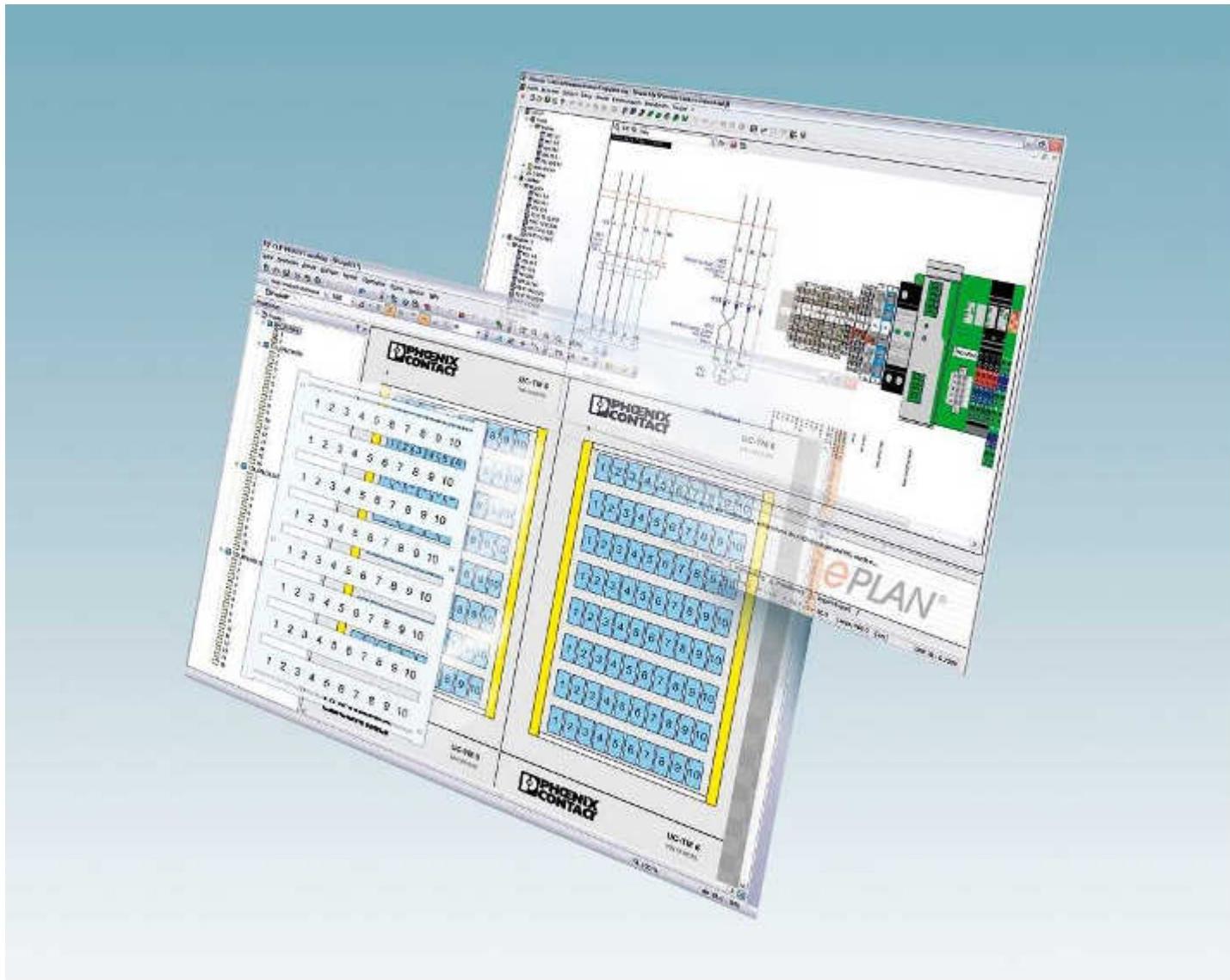
We make everything to suit your requirements
With CLIP PROJECT, you can create markers or complete terminal strips in accordance with your specifications. Just send the data to us using the built-in e-mail function.
We can provide markings that are printed precisely to meet the requirements of your application or even completely labeled terminal strips. Direct to your production facility, quickly and easily - all you need to take care of is installation.

For additional information, visit www.phoenixcontact.net/products

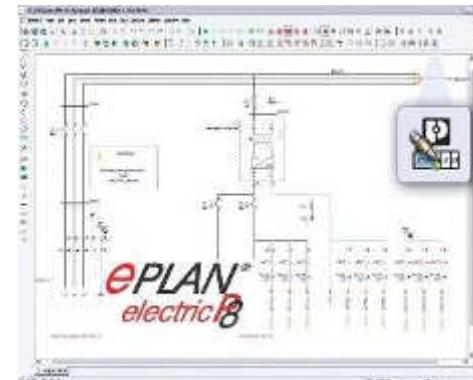
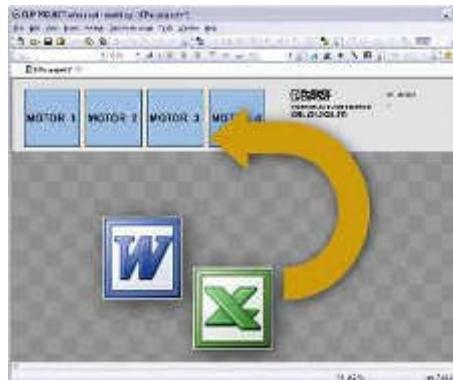
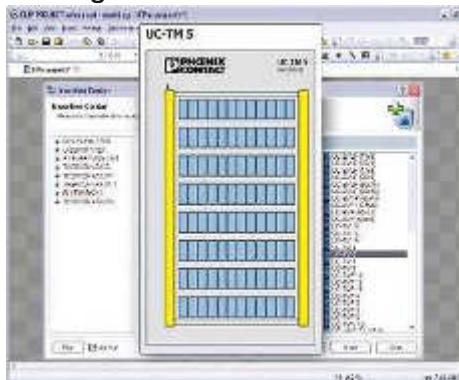
PHOENIX CONTACT

Marking and labeling - MARKING system

CLIP PROJECT planning and marking software



Marking module



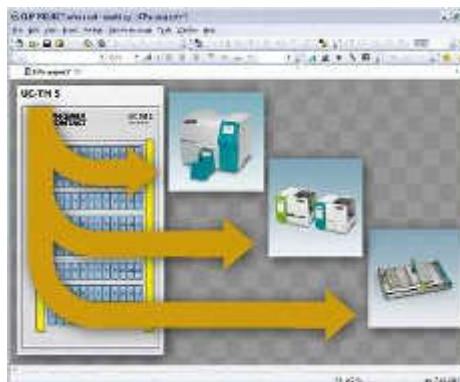
During selection, the marking materials are displayed as a preview for rapid product selection.

Interfaces to all CAE systems and spreadsheet and text processing programs are provided for the open exchange of data.

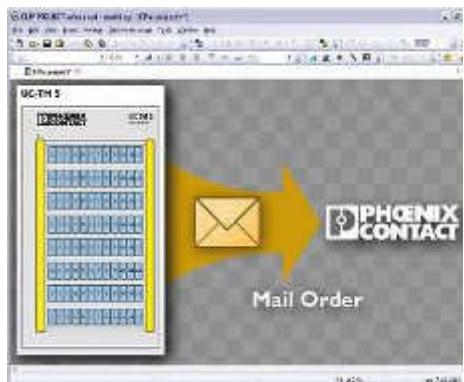
By integrating CLIP PROJECT into EPLAN P8, the labeling data for terminal, conductor, and device marking can be automatically taken from the circuit diagram.



The online update immediately provides the user with new products and program extensions for the marking and planning module.



All Phoenix Contact output devices and standard office printers can be easily controlled with just one piece of software.

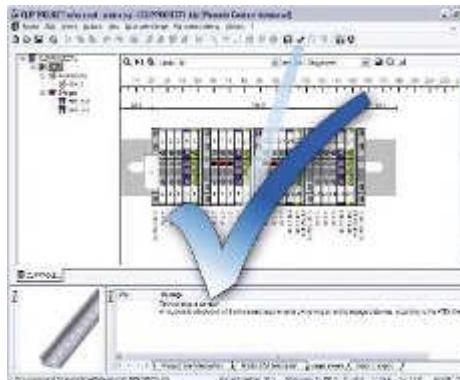


Phoenix Contact provides a labeling service. Orders can be placed by e-mail and all items printed and supplied to suit the customer.

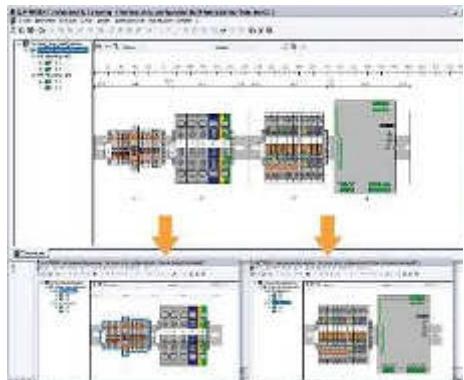
Planning module



During selection, all Phoenix Contact products which can be fitted on DIN rails are displayed as a preview for rapid product selection.



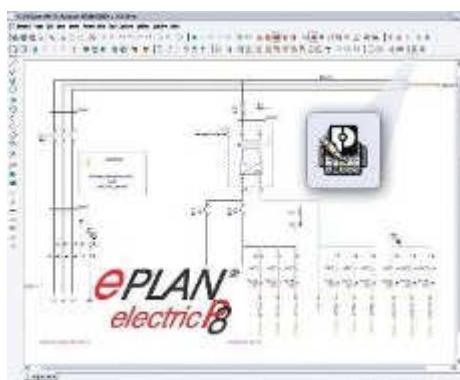
The automatic correction function checks the configured terminal strip and automatically adds any missing accessories. 2D and 3D design data are available at the click of a mouse.



The configured terminal strips can be distributed across several DIN rails in order to determine the exact space requirements for installation.



Complete documentation and an effective 3D preview are available for rapidly and correctly producing the mechanical structure of the terminal strips.



By integrating CLIP PROJECT into EPLAN P8, terminal strips are automatically produced from the circuit diagram in CLIP PROJECT. The product data is written back to the EPLAN parts lists using the two-way interface.



Phoenix Contact provides a terminal strip service. The terminal strips configured to suit your requirements can be ordered using the e-mail function. Phoenix Contact will supply the terminal strips promptly.

Marking and labeling - MARKING system

CLIP PROJECT planning and marking software

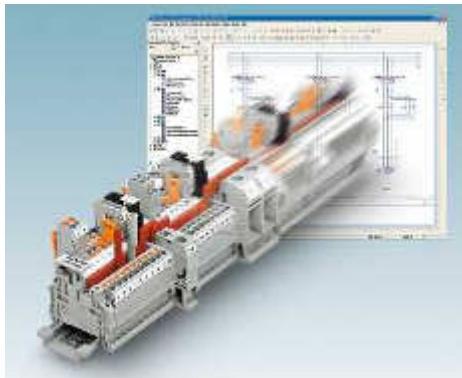
CLIP PROJECT advanced

The CLIP PROJECT advanced program enables the quick planning and configuration of terminal strips for the control cabinet and field as well as custom-marking of terminal blocks, cables, and lines, plus devices and systems:

- Planning of terminal strips with components of the CLIPLINE, INTERFACE, TRABTECH, and AUTOMATION product ranges
- The automatic correction function performs a logical test of the terminal strips and automatically adds the necessary accessories such as covers and end brackets
- The terminal strip configurator enables the distributed arrangement of individual terminal strips on different DIN rails
- 3D preview and complete documentation of the assembled DIN rails, such as order and mounting lists.
- High-performance import of labeling information and extensive design options for the custom-labeling of terminal blocks, cables, and lines, as well as devices and systems
- Numerous sorting and filter functions for efficient management of your print jobs
- Support for all marking materials and output devices from Phoenix Contact
- Automatic Internet update
- Intuitive Windows® user interface

To reduce engineering costs and improve data quality, CLIP PROJECT advanced allows two-way data exchange with electrical planning systems:

- With the circuit diagram as the basis, the required products are automatically selected and their complete data written back to the parts lists
- The labeling information can be automatically exported and assigned to the desired marking materials
- In order for the labeling to be assigned clearly, even in the case of extensive projects, the project structure tree from the CAE system has been adopted in CLIP PROJECT; this also allows the labeling to be output to sub-projects



General data

Software interface

Technical data

EPLAN 5.7
EPLAN Electric P8
AUCOTEC ELCAD
AUCOTEC Engineering Base
AUCOTEC RUPLAN
ZUKEN E³
Bentley Promis-e
WSCAD
IGE XAO
PC-Schematic AUTOMATION
SDProget SPAC

System requirements

Operating systems

MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit),
MS Windows 8 (32/64-bit)

Ordering data

Description

Type

Order No.

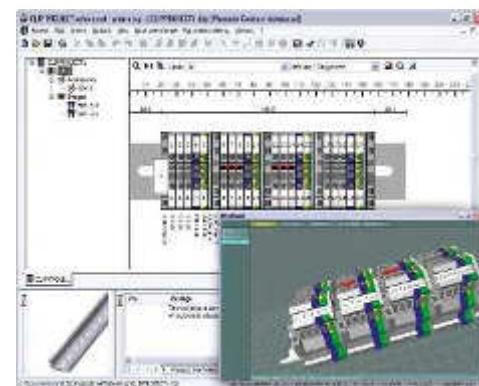
Pcs. / Pkt.

CLIP PROJECT advanced, planning and marking software,
German/English/French/Dutch/Italian/Spanish/Russian/Polish/Hungarian/Czech/Turkish/Portuguese/Chinese and Japanese

CLIP-PROJECT ADVANCED

5146040

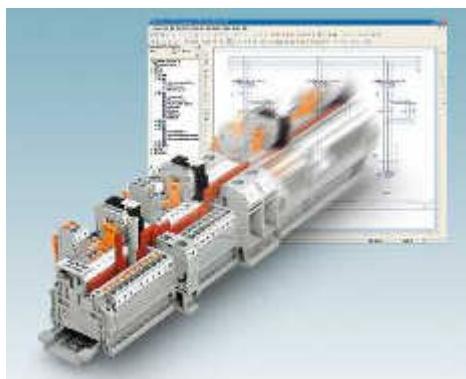
1



CLIP PROJECT professional

The CLIP PROJECT planning and marking software is available in both an advanced and professional version:

- The professional version also includes an efficient template designer, which can be used to design signs of your choice and to adapt existing material descriptions
- Graphics, various barcode types, and geometric elements such as squares, circles, and lines can be accessed for design work
- Data can also be imported into the templates from various data sources
- Rapid, simple, and flexible adaptation to changing requirements

**Technical data****General data**

Software interface

EPLAN 5.7
EPLAN Electric P8
AUCOTEC ELCAD
AUCOTEC Engineering Base
AUCOTEC RUPLAN
ZUKEN E³
Bentley Promis-e
WSCAD
IGE XAO
PC-Schematic AUTOMATION
SDProget SPAC

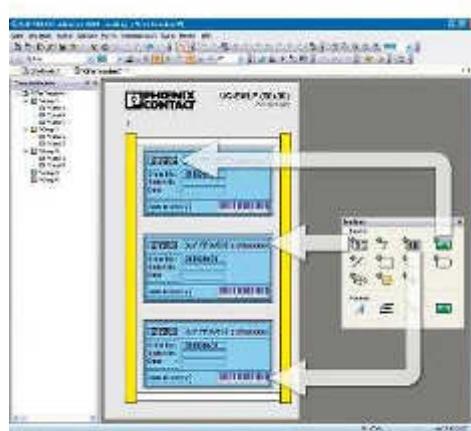
System requirements

Operating systems

MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit),
MS Windows 8 (32/64-bit)

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
CLIP PROJECT professional, planning and marking software, with template designer , German/English/French/Dutch/Italian/Spanish/Russian/Polish/Hungarian/Czech/Turkish/Portuguese/Chinese and Japanese	CLIP-PROJECT PROFESSIONAL	5146053	1





Printing systems - MARKING system

The right printer for every application. We can provide a wide range of printing systems for your terminal, conductor, cable, and device marking requirements. The BLUemark CLED high-speed printer with innovative UV technology prints materials in UniCard format quickly and easily.

The printers in the THERMOMARK series are renowned for their proven maintenance-free printing method and maximum user-friendliness. They can be used to print markers in a variety of materials and print formats, as well as labels and shrink sleeves, in outstanding quality.

Product range overview

Printing systems	30
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THERMOMARK CARD PLUS	34
THERMOMARK CARD	35
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MARKING BOX	40
THERMOMARK CARD SET and ROLL SET	41
THERMOMARK X1.2	42
THERMOMARK W2	43
CMS-P1-PLOTTER	44
CMS-P1-PLOTTER engraving unit	45
Overview of marking material - printers	50

Which printer prints which marking

Printing systems



Phoenix Contact is a competent partner for control cabinet and system engineering. In this context, we aim to supplement our products with services, hardware, and software to make the planning and production of systems as efficient as possible.

MARKING system from Phoenix Contact represents an integrated labeling system from planning right through to the finished printed label. In addition to the wide range of marking materials, the marking range also includes the CLIP PROJECT software as well as various printers.

The data required for labeling is sent to the printers by the CLIP PROJECT planning software, which is supplied as standard. This controls the printers and facilitates the creation of marking data by allowing data to be imported directly from circuit diagrams.

Phoenix Contact provides a variety of printing systems:

- BLUemark CLED, high-speed printer with UV technology for labeling UniCard formats
- THERMOMARK CARD, thermal transfer printer for labeling UniCard and UniSheet formats
- THERMOMARK ROLL, thermal transfer printer for labeling material off the roll and continuous media
- THERMOMARK ROLL X1, thermal transfer printer for large quantities
- THERMOMARK W2, thermal transfer printer for double-sided labeling and perforation of continuous shrink sleeves
- CMS-P1-PILOT and P1 ENGRAVING UNIT to extend plotters for engraving

A comprehensive range of materials for marking terminal blocks, conductors, cables, and devices is available for each of the printing systems provided. As a result, each printing system represents a self-contained solution capable of performing all marking tasks in and around the control cabinet. To ensure that you benefit from consistently high levels of marking quality, all the materials offered are tailored to the devices concerned and undergo extensive testing.



The BLUemark CLED uses the latest UV technology for labeling. This makes the markers instantly wipe-resistant and ready for immediate use. The fast printing technology enables 10,000 labels to be processed per hour. Thanks to the LED technology, the printer does not require a warm-up time, is environmentally friendly, and is also very quiet.



With the new THERMOMARK CARD PLUS thermal transfer printer, you can use a segmented ink ribbon to create four-color marking labels. You can create warning instructions, prohibition signs, mandatory signs, hazardous substances labels according to the Ordinance on Hazardous Substances, and combi labels easily and with excellent quality. The low weight and compact design of this new printer mean that it can also be used as a portable solution.



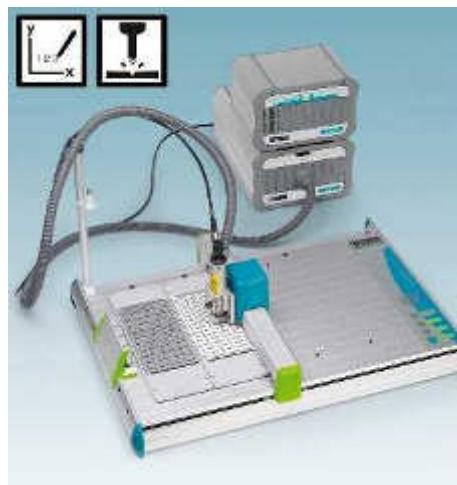
The new THERMOMARK CARD thermal transfer printer can be used to print marking materials supplied in card format. It offers you a really easy way to produce terminal, conductor, cable, and device markings of incredibly high quality. The low weight and compact design of the new printer mean that it can also be used as a portable solution wherever it is needed.



The THERMOMARK ROLL thermal transfer printer has been designed for printing material off the roll and continuous media. You can easily create high-quality printed labels, markers, and shrink sleeves. The compact printer is also suitable for mobile use. The THERMOMARK ROLL X1 is particularly suitable for labeling large quantities.



The THERMOMARK W2 has been specially developed for the double-sided printing and perforation of continuous VMS shrink sleeves. Double-sided labeling ensures optimum legibility on conductors and cables. The special construction of the guide elements ensures easy handling when inserting the sleeve.



Apart from label strips and UniCard materials, the CMS-P1-PLOTTER can also be used to label sheet materials. Its integrated pen station facilitates handling and helps prevent the pens from drying out. The CMS-P1-PLOTTER can be converted into an engraving unit quickly and easily by swapping the plotter head for the engraving device.

Marking and labeling - MARKING system

Printing systems

BLUEMARK CLED



MARKING system

The new BLUEMARK CLED makes labeling standardized UniCard material for terminal blocks, conductors, and device marking as easy as printing on paper. The printer receives labeling data directly from your CAE system via the CLIP PROJECT central planning and marking software.



UV LED technology

Dimensions

[mm]

General data

Temperature range
Print method
Volume
Pressure capacity

[°C]

Interfaces

Power supply
Weight
Operating systems

[V]

[kg]

Power consumption

[W]

Description

Color

Printer with solvent-free LED UV technology, including CLIP PROJECT advanced software, collection container for 20 sheets, CD with multilingual user manual, English/German user manual, driver and firmware, European and US power cable, USB cable



Easy operation

- Thanks to large color touch screen
- Direct entry of data and commands
- Clear symbols and plain text messages
- Ready to print as soon as device is switched on
- Language selection via touchscreen menu

CLED – compact UV LED printing technology

Printing fluid is exposed to UV light which is the basis of our quick-dry printing concept. This light is generated with high intensity using 24 LEDs on a surface of 1 cm².

- Excellent printing quality
- No drying time
- High wipe and abrasion resistance
- Excellent resistance to chemicals
- Environmentally friendly, as solvent-free system

Set, consisting of: 1 x BLUEMARK CLED, Order No. 5147999, 1 x MARKING NOTEBOOK, CLIP-PROJECT PROFESSIONAL

gray

With German operating system and German keyboard

gray

With English operating system and English keyboard

gray

Accommodating box, in conjunction with the BLUEMARK CLED-MAG 40, for accommodating 90 UC or UCT sheets

Fluid cartridge, replacement, 20 ml printing fluid, black

Exchangeable magazine,

For accommodating 20 UC or UCT sheets

For accommodating 40 UC or UCT sheets

Compartiment

For accommodating 20 UC or UCT sheets

Transport case, with aluminum edges, for printer and accessories

Magazines for labeling aluminum markers

Notes:

An application video can be found in the download area for the relevant product on our website at www.phoenixcontact.net/products.



Printers



Printing set for mats



Accomodating box

Technical data			Technical data			Technical data		
Width	Length	Height	Width	Length	Height	Width	Length	Height
480	500	330	480	500	330	400	470	160
5 ... 35			5 ... 35			-		
UV LED technology			UV LED technology			-		
20 ml			20 ml			-		
Approx. 10000 markers/h (UC-TMF 4 with 2 characters/marker)			Approx. 10000 markers/h (UC-TMF 4 with 2 characters/marker)			-		
10/100 Mbps Ethernet / USB 2.0			10/100 Mbps Ethernet			-		
100 ... 240 / 50 Hz ... 60 Hz			100 ... 240 / 50 Hz ... 60 Hz			-		
16			16			-		
MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)			MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)			-		
74			74			-		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
BLUEMARK CLED	5147999	1	BLUEMARK CLED SET	5147400	1	BLUEMARK CLED-BASE	5146669	1
			BLUEMARK CLED SET EN	5147401	1			
Accessories			Accessories			Accessories		
BLUEMARK CLED-FLUID-CARTR.	5146662	1	BLUEMARK CLED-FLUID-CARTR.	5146662	1			
BLUEMARK CLED-MAG 20	5146655	1	BLUEMARK CLED-MAG 20	5146655	1			
BLUEMARK CLED-MAG 40	5146668	1	BLUEMARK CLED-MAG 40	5146668	1			
BLUEMARK CLED-STACKER 20	5146656	1	BLUEMARK CLED-STACKER 20	5146656	1			
BLUEMARK CLED CASE	5146725	1	BLUEMARK CLED CASE	5146725	1			
See page 161			See page 161					

Printing systems

THERMOMARK CARD PLUS, for sheet materials and cards, four-color printing

N



Thermal transfer for sheets and cards



The THERMOMARK CARD PLUS was specially developed for printing with segmented multi-ink ribbons.

- Prints markers in card format for terminal, conductor, cable, device, system, and safety marking applications
- Prints several colors without replacing the ink ribbon
- For all UniCard (UCT) and UniSheet (US) materials
- Maintenance-free operation with tried-and-tested thermal transfer printing technology
- High-quality, fast printing: printing time for one single-color UniCard: just 8 seconds
- Easy operating concept based on straightforward touchscreen entry
- USB and Ethernet connections
- Easy to control with the CLIP PROJECT software

Notes:

An application video can be found in the download area for the relevant product on our website at www.phoenixcontact.net/products.

Technical data				
Dimensions	[mm]	Width 253	Length 320	Height 189
General data				
Print resolution	[dpi]	300 dpi		
Max. print width	[mm]	104		
Power supply	[V]	100 ... 240 / 50 Hz ... 60 Hz		
Weight	[kg]	6		
Operating systems		MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)		
Ordering data				
Description	Color	Type	Order No.	Pcs. / Pkt.
Thermal transfer printer for cards, incl. European power cable, US power cable, USB cable, DVD with CLIP PROJECT ADVANCED, CD with multilingual user manual/driver/firmware, DIN A5 printed English/German user manual, magazine for UCT-TM materials, magazine for US materials, one unit pack UCT-TM 6, one unit pack US-EMLP (85,6x54), one ink ribbon (50-meter sample roll)	gray	THERMOMARK CARD PLUS	5146481	1
Accessories				
Transport case		TL CASE	0800613	1
Ink ribbon, length: 300 m, width: 110 mm		THERMOMARK-RIBBON 110-TC	0801371	1
Ink ribbon, length: 300 m, width: 110 mm	black white	TM-RIBBON 110-TC/TR WH	1014402	1
Segmented ink ribbon, length: 60 m, width: 110 mm two segments in colors		TM-RIBBON 110-TC BK/RD	1014403	1
three segments in colors	black/red black/red/yellow	TM-RIBBON 110-TC BK/RD/YE	1014404	1
four segments in colors	black/red/blue/ yellow	TM-RIBBON 110-TC BK/RD/BU/YE	1014405	1



THERMOMARK CARD, thermal transfer printer for sheet materials and cards



Thermal transfer for sheets and cards



CCC P CB

- The THERMOMARK CARD can print markers supplied as cards in the context of terminal, conductor, cable, and device marking applications
- For all UniCard (UCT) and UniSheet (US) materials
- Maintenance-free operation with tried-and-tested thermal transfer printing technology
- High-quality, fast labeling. Printing time for one UniCard: just 8 seconds
- Easy operating concept based on straightforward touchscreen entry
- USB and Ethernet connections
- Easy to control with the CLIP PROJECT software

Notes:

For corresponding magazines, see page 36.

An application video can be found in the download area for the relevant product on our website at www.phoenixcontact.net/products.

Technical data			
	Width	Length	Height
Dimensions	[mm]	253	320
General data		189	
Print resolution	[dpi]	300 dpi	
Max. print width	[mm]	104	
Power supply	[V]	100 ... 240 / 50 Hz ... 60 Hz	
Weight	[kg]	6	
Operating systems		MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)	
Ordering data			
Description	Color	Type	Order No.
Thermal transfer printer for cards, incl. European power cable, US power cable, USB cable, DVD with CLIP PROJECT ADVANCED, CD with multilingual user manual/driver/firmware, DIN A5 printed English/German user manual, magazine for UCT-TM materials, magazine for US materials, one unit pack UCT-TM 6, one unit pack US-EMLP (85,6x54), one ink ribbon (50-meter sample roll)	gray	THERMOMARK CARD	5146464
Accessories			
Transport case		TL CASE	0800613
Ink ribbon, length: 300 m, width: 110 mm	black	THERMOMARK-RIBBON 110-TC	0801371
Ink ribbon, length: 300 m, width: 110 mm	white	TM-RIBBON 110-TC/TR WH	1014402



Marking and labeling - MARKING system

Printing systems

Magazines for THERMOMARK CARD and THERMOMARK CARD PLUS



Thermal transfer for sheets
and cards



- Robust magazines for UniCard labeling material
- The format automatically ensures printing with a high level of positional accuracy
- Even compatible with marking sheets that have already been started

Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Magazine , for THERMOMARK CARD ... for accommodating: UCT-TM ..., UCT1-TM ..., UCT5-TM ..., UCT-EM (5X10), UCT-EM (6X10)	THERMOMARK CARD-UCT-MAG1	5146480	1
Magazine , for THERMOMARK CARD ..., for accommodating: UCT-TMF ...	THERMOMARK CARD-UCT-MAG2	5146563	1
Magazine , for THERMOMARK CARD ..., for accommodating: UCT-WMS ...	THERMOMARK CARD-UCT-MAG3	5146613	1
Plastic magazine , for THERMOMARK CARD ..., for accommodating: UCT1-TMF...	THERMOMARK CARD-UCT-MAG4	5146614	1
Plastic magazine , for THERMOMARK CARD ..., for accommodating: UCT2-TM ...	THERMOMARK CARD-UCT-MAG5	5146615	1
Magazine , for THERMOMARK CARD ..., for accommodating: UCT3-TM ...	THERMOMARK CARD-UCT-MAG6	5146616	1
Magazine , for THERMOMARK CARD ..., for accommodating UCT-WMT ... sheets, UCT-EM (17X10)	THERMOMARK CARD-UCT-MAG7	0801734	1
Magazine , for THERMOMARK CARD ... for accommodating UCT-EM (17,5X8), UCT-EM (20X7), UCT-EM (15X10) for accommodating UCT-EM (12X3,3), UCT-EM (12X6) for accommodating UCT-EM (30X5) for accommodating UCT-EM (17X10) and (20X8)	THERMOMARK CARD-UCT-MAG8	0801735	1
	THERMOMARK CARD-UCT-MAG9	0801736	1
	THERMOMARK CARD-UCT-MAG10	0801737	1
	THERMOMARK CARD-UCT-MAG11	0801738	1
Magazine , for THERMOMARK CARD ... for accommodating UCT-EM (10X8), UCT-EM (12X7) for accommodating UCT-EM (10X5) for accommodating UCT-EM (21X8) and UCT EM (17X8)	THERMOMARK CARD-UCT-MAG12	0830399	1
	THERMOMARK CARD-UCT-MAG13	0830400	1
	THERMOMARK CARD-UCT-MAG14	0830401	1
Magazine , for THERMOMARK CARD ... for accommodating UCT-EM (20 x 9) for accommodating UCT-EM (17 x 9) for accommodating UCT-EM (18 x 8)	THERMOMARK CARD-UCT-MAG15	0830402	1
	THERMOMARK CARD-UCT-MAG16	0830403	1
	THERMOMARK CARD-UCT-MAG17	0830404	1
Magazine , for THERMOMARK CARD ... for accommodating UCT-EM (17,5X7,5) for accommodating UCT-EM (10X7) for accommodating UCT-EM (17,5X9)	THERMOMARK CARD-UCT-MAG18	0830405	1
	THERMOMARK CARD-UCT-MAG20	0830751	1
	THERMOMARK CARD-UCT-MAG22	0830771	1
Magazine , for THERMOMARK CARD ... for accommodating UCT6M-TM ... for accommodating UCT6R-TM ...	THERMOMARK CARD-UCT-MAG23	0830808	1
	THERMOMARK CARD-UCT-MAG24	0830809	1

**Magazine for THERMOMARK CARD
and THERMOMARK CARD PLUS**



Thermal transfer for sheets
and cards



- Robust magazine for UniSheet labeling material
- The format automatically ensures printing with a high level of positional accuracy
- Even compatible with marking sheets that have already been started

Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Magazine , for THERMOMARK CARD..., for accommodating all US-... materials	THERMOMARK CARD-US-MAG1	5146451	1

Marking and labeling - MARKING system

Printing systems

THERMOMARK ROLL, thermal transfer printer for material off the roll



Thermal transfer for rolls



CCC + UL + CB scheme

- The THERMOMARK ROLL can print markers supplied on rolls in the context of terminal, conductor, cable, and device marking applications
- For all labels and shrink sleeves
- Maintenance-free operation with tried-and-tested thermal transfer printing technology
- High-quality, fast labeling
- Easy operating concept based on straightforward touchscreen entry
- USB and Ethernet connections
- Easy to control with the CLIP PROJECT software

Notes:

An application video can be found in the download area for the relevant product on our website at www.phoenixcontact.net/products.

Technical data				
Dimensions	[mm]	Width	Length	Height
General data		253	320	189
Print resolution	[dpi]	300 dpi		
Max. print width	[mm]	104		
Max. printing length	[mm]	1000		
Power supply	[V]	100 ... 240 / 50 Hz ... 60 Hz		
Weight	[kg]	4		
Operating systems		MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)		
Ordering data				
Description	Color	Type	Order No.	Pcs./Pkt.
Thermal transfer printer for material off the roll, including European power cable, US power cable, USB cable, DVD with CLIP PROJECT ADVANCED, CD with multilingual user manual/driver/firmware, A5 printed English/German user manual, one roll of EML (20x8) labels containing 1000 labels, one ink ribbon (50 meters)	gray	THERMOMARK ROLL	5146477	1
Accessories				
Cutter, can be retrofitted, for precise cutting of continuous media into required lengths		THERMOMARK ROLL-CUTTER	5146422	1
Cutter, can be retrofitted, for perforating continuous media		THERMOMARK ROLL-CUTTER/P	5146435	1
Transport case		TL CASE	0800613	1
External media hub, for roll diameters of 150 mm to 305 mm		THERMOMARK ROLL-ERH	5146448	1
External media hub, for roll diameters of up to 500 mm		THERMOMARK-ERH 500	5146309	1
Ink ribbon, length: 300 m, width: 110 mm	black blue green red	THERMOMARK-RIBBON 110 THERMOMARK-RIBBON 110 BU THERMOMARK-RIBBON 110 GN THERMOMARK-RIBBON 110 RD	5145384 0829544 0829542 0829543	1 1 1 1
Ink ribbon, specifically for high-temperature labels, EML-HT...	black	THERMOMARK-RIBBON 110-EML-HT	0800342	1
Ink ribbon, specifically for WMS... shrink sleeves, length: 300 m, width: 110 mm	black white	THERMOMARK-RIBBON 110-WMSU THERMOMARK-RIBBON 110-WMSU WH	0801358 0801359	1 1
Ink ribbon, specifically for WMS... shrink sleeves, length: 300 m, width: 64 mm	black white	THERMOMARK-RIBBON 64-WMSU THERMOMARK-RIBBON 64-WMSU WH	0801360 0801361	1 1

THERMOMARK ROLL X1, thermal transfer printer for material off the roll



Thermal transfer for rolls



The THERMOMARK ROLL X1 printer is suitable for labeling large quantities and offers the following features:

- Also accommodates large rolls; inside the printer housing, the label rolls are protected against environmental influences such as dust and dirt
- For all labels and shrink sleeves
- Maintenance-free operation with tried-and-tested thermal transfer printing technology
- High-quality, fast labeling
- Easy operating concept based on straightforward touchscreen entry
- USB and Ethernet connections
- Easy to control with the CLIP PROJECT software
- Printing and dispensing labels on request or automatically after removing the label with the THERMOMARK ROLL X1 -DISPENSER

Cutting to length or perforating is easy

- Continuous media can be cut or perforated with a high degree of positioning accuracy (see figure below)



Technical data			
Dimensions	Width 264	Length 412	Height 245
General data			
Temperature range	[°C] 5 ... 40		
Print resolution	[dpi] 300 dpi		
Max. print width	[mm] 104		
Max. printing length	[mm] 1000		
Interfaces	10/100 Mbps Ethernet / USB 2.0		
Power supply	[V] 100 ... 240 / 50 Hz ... 60 Hz		
Weight	[kg] 5		
Operating systems	MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)		
Ordering data			
Description	Color	Type	Order No. Pcs. / Pkt.
Thermal transfer printer for material off the roll, including European power cable, US power cable, USB cable, DVD with CLIP PROJECT ADVANCED, CD with multilingual user manual/driver/firmware, A5 printed English/German user manual, one roll of EML (20x8) labels containing 1000 labels, one ink ribbon (50 meters)	gray	THERMOMARK ROLL X1	5146723 1
Accessories			
Cutter , can be retrofitted, for precise cutting of continuous media into required lengths		THERMOMARK ROLL X1 CUTTER	5146765 1
Perforation device , can be retrofitted, for perforating and cutting continuous media			
Label dispenser , dispensing device for labels with a height of 10 mm or more		THERMOMARK ROLL X1 CUTTER/P	5146766 1
Ink ribbon , length: 300 m, width: 110 mm	black blue green red	THERMOMARK ROLL X1 -DISPENSER	1014401 1
Ink ribbon , specifically for high-temperature labels, EML-HT...	black	THERMOMARK-RIBBON 110	5145384 1
		THERMOMARK-RIBBON 110 BU	0829544 1
		THERMOMARK-RIBBON 110 GN	0829542 1
		THERMOMARK-RIBBON 110 RD	0829543 1
Ink ribbon , specifically for WMS... shrink sleeves, length: 300 m, width: 110 mm	black	THERMOMARK-RIBBON 110-EML-HT	0800342 1
	black	THERMOMARK-RIBBON 110-WMSU	0801358 1
	white	THERMOMARK-RIBBON 110-WMSU WH	0801359 1
Ink ribbon , specifically for WMS... shrink sleeves, length: 300 m, width: 64 mm	black white	THERMOMARK-RIBBON 64-WMSU	0801360 1
		THERMOMARK-RIBBON 64-WMSU WH	0801361 1
Ink ribbon , specifically for cable markers for assembly with cable binders, WMTB HF..., length: 300 m, width: 110 mm	black	THERMOMARK-RIBBON 110-WMTB HF	5148007 1
Transport case	silver	THERMOMARK ROLL X1-CASE	5146724 1

Marking and labeling - MARKING system

Printing systems

THERMOMARK printer sets



Thermal transfer for sheets
and cards



Thermal transfer for rolls



Printing set, complete

MARKING BOX is the complete labeling system for all terminal, conductor, cable, and device marking applications. It is available for different country-specific keyboard and operating systems.

- Includes the **THERMOMARK CARD** printer for all materials in the UniCard (UCT) and UniSheet (US) formats
- Includes the **THERMOMARK ROLL** printer for all labels and shrink sleeves supplied in rolls
- Includes a powerful notebook with pre-installed CLIP PROJECT configuration and marking software, as well as the printer drivers required to enable quick start-up without any need for installation and setup work. Plug and print. Simply connect the devices via USB and you're ready to print
- The compact and robust **THERMOMARK** printers are optimally suited to mobile use on site.

Notes:

An application video can be found in the download area for the relevant product on our website at www.phoenixcontact.net/products.

Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Set , consisting of: 1 x THERMOMARK CARD, Order No. 5146464, 1 x THERMOMARK ROLL, Order No. 5146477, 1 x MARKING NOTEBOOK, CLIP-PROJECT PROFESSIONAL			
German operating system and keyboard	MARKING BOX	5147100	1
English operating system and US international keyboard	MARKING BOX EN	5147101	1
Printing set , consisting of: 1 x THERMOMARK CARD, Order No. 5146464, 1 x MARKING NOTEBOOK, CLIP-PROJECT PROFESSIONAL			
German operating system and keyboard			
English operating system and US international keyboard			
Printing set , consisting of: 1 x THERMOMARK ROLL, Order No. 5146477, 1 x MARKING NOTEBOOK, CLIP-PROJECT PROFESSIONAL			
German operating system and keyboard			
English operating system and US international keyboard			
Versions			
German operating system and Swiss keyboard	MARKING BOX DE CH	0801749	1
English operating system and Belgian keyboard	MARKING BOX EN BE	0801742	1
French operating system and keyboard	MARKING BOX FR FR	0801590	1
Spanish operating system and keyboard	MARKING BOX ES ES	0801747	1
Italian operating system and keyboard	MARKING BOX IT IT	0801745	1
Polish operating system and US international keyboard	MARKING BOX PL US	0801744	1
Hungarian operating system and keyboard	MARKING BOX HU HU	0801750	1
Portuguese operating system and keyboard	MARKING BOX PT PT	0801748	1
Russian operating system and keyboard	MARKING BOX RU RU	0801739	1
Danish operating system and keyboard	MARKING BOX DK DK	0801741	1
Swedish operating system and keyboard	MARKING BOX SE SE	0801740	1

Accessories

Printer accessories

www.phoenixcontact.net/products



Printing set for cards



Printing set for material provided on rolls

Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD SET	5147200	1	THERMOMARK ROLL SET	5147300	1
THERMOMARK CARD SET EN	5147201	1	THERMOMARK ROLL SET EN	5147301	1
THERMOMARK CARD SET DE CH	5147220	1	THERMOMARK ROLL SET DE CH	5147230	1
THERMOMARK CARD SET EN BE	5147214	1	THERMOMARK ROLL SET EN BE	5147225	1
THERMOMARK CARD SET FR FR	0801591	1	THERMOMARK ROLL SET FR FR	0801592	1
THERMOMARK CARD SET ES ES	5147218	1	THERMOMARK ROLL SET ES ES	5147228	1
THERMOMARK CARD SET IT IT	5147217	1	THERMOMARK ROLL SET IT IT	5147227	1
THERMOMARK CARD SET PL US	5147215	1	THERMOMARK ROLL SET PL US	5147226	1
THERMOMARK CARD SET HU HU	5147221	1	THERMOMARK ROLL SET HU HU	5147231	1
THERMOMARK CARD SET PT PT	5147219	1	THERMOMARK ROLL SET PT PT	5147229	1
THERMOMARK CARD SET RU RU	5147211	1	THERMOMARK ROLL SET RU RU	5147222	1
THERMOMARK CARD SET DK DK	5147213	1	THERMOMARK ROLL SET DK DK	5147224	1
THERMOMARK CARD SET SE SE	5147212	1	THERMOMARK ROLL SET SE SE	5147223	1
Accessories			Accessories		

Marking and labeling - MARKING system

Printing systems

THERMOMARK X1.2, thermal transfer printer for material off the roll



Thermal transfer for rolls



An important addition to the range is the THERMOMARK X1.2, a top-of-the-line thermal transfer printer with the following key features:

- High print speed
- Print resolution of 300 dpi
- This printer is suitable for labeling large quantities and is capable of processing all types of material supplied on rolls
- The easy-to-use centering function for the printing material makes it possible to label continuous media such as shrink sleeves
- High-quality resin-based ink ribbons ensure a form of labeling that is resistant to mechanical and chemical effects
- Continuous media can be cut and perforated with a high degree of positional accuracy



Technical data			
Dimensions	[mm]	Width 242	Length 446
General data		Height 274	
Print resolution	[dpi]	300 dpi	
Max. print width	[mm]	105	
Max. printing length	[mm]	2000	
Interfaces		Serial (V.24 (RS-232)) / USB 2.0 / 10/100 Mbps Ethernet	
Power supply	[V]	100 ... 240 / 50 Hz ... 60 Hz	
Weight	[kg]	10	
Operating systems		MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)	
Ordering data			
Description	Color	Type	Order No. Pcs./ Pkt.
Thermal transfer printer, incl. connecting cable, Windows® printer driver and operating instructions, software	gray	THERMOMARK X1.2	5146231 1
Accessories			
Starter set, complete for THERMOMARK X1.2 consisting of: - Planning and marking software - THERMOMARK X1.2 thermal transfer printer - Ink ribbon - Label rolls		THERMOMARK X1.2-KIT	5146341 1
Cutter, for THERMOMARK X1...		THERMOMARK X1-CUTTER	5145290 1
Perforator		THERMOMARK X1-CUTTER/P	5146244 1
Transport case, with aluminum edges, for printer and accessories		THERMOMARK X1-CASE	5145300 1
External media hub, for roll diameters of 150 mm to 305 mm		THERMOMARK ROLL-ERH	5146448 1
External media hub, for roll diameters of up to 500 mm			
Ink ribbon, length: 300 m, width: 110 mm	black	THERMOMARK-ERH 500	5146309 1
Ink ribbon, specifically for high-temperature labels, EML-HT...		THERMOMARK-RIBBON 110	5145384 1
Ink ribbon, specifically for WMS... shrink sleeves, length: 300 m, width: 110 mm	black white	THERMOMARK-RIBBON 110-EML-HT	0800342 1
Ink ribbon, specifically for WMS... shrink sleeves, length: 300 m, width: 64 mm	black white	THERMOMARK-RIBBON 110-WMSU THERMOMARK-RIBBON 110-WMSU WH	0801358 1 0801359 1
		THERMOMARK-RIBBON 64-WMSU THERMOMARK-RIBBON 64-WMSU WH	0801360 1 0801361 1

THERMOMARK W2, thermal transfer printer for continuous shrink sleeve



Thermal transfer for rolls



The THERMOMARK W2 has been specially developed for the double-sided printing and perforation of continuous VMS shrink sleeves

- Double-sided printing ensures optimum marking legibility
- The guide elements ensure easy handling when inserting the sleeve
- The user-friendly interface of the CLIP PROJECT software enables you to enter custom specifications for the labeling and marker length
- Black and white ink ribbons are available to facilitate color marking
- The printed markers can be easily and quickly separated along the perforations

Technical data		
Width	248	Length
	554	Height
	405	
Print resolution	[dpi]	300 dpi
Max. print width	[mm]	105.6
Max. printing length	[mm]	1000
Interfaces		Serial (V.24 (RS-232)) / USB 2.0 / 10/100 Mbps Ethernet
Power supply	[V]	100 ... 240 / 50 Hz ... 60 Hz
Weight	[kg]	21
Operating systems		MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)

Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Thermal transfer printer, specially for shrink sleeve labeling on both sides, including perforation knife, connecting cable, Windows® printer driver, operating instructions, CLIP PROJECT advanced planning and marking software	THERMOMARK W2	5146147	1

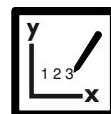
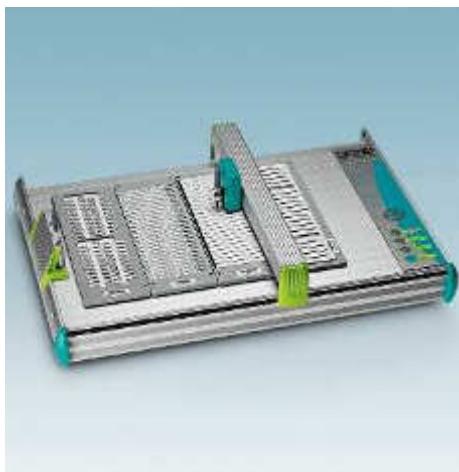
Accessories			
External media hub, for roll diameters of 150 mm to 305 mm	THERMOMARK ROLL-ERH	5146448	1
External media hub, for roll diameters of up to 500 mm	THERMOMARK-ERH 500	5146309	1
External media hub, for roll diameters of up to 500 mm	THERMOMARK-ERH 500	5146309	1
Ink ribbon, specifically for WMS... shrink sleeves, length: 300 m, width: 110 mm	black white	THERMOMARK-RIBBON 110-WMSU THERMOMARK-RIBBON 110-WMSU WH	0801358 0801359 1 1
Ink ribbon, specifically for WMS... shrink sleeves, length: 300 m, width: 64 mm	black white	THERMOMARK-RIBBON 64-WMSU THERMOMARK-RIBBON 64-WMSU WH	0801360 0801361 1 1



Marking and labeling - MARKING system

Printing systems

CMS-P1-PLOTTER



Plotter



- During long periods of non-use, the plotter pens are stored safely in a pen station
- The pens are removed and deposited automatically
- The pen station of the CMS-P1-PLOTTER prevents the plotter pens from drying out
- An automatic marking preparation function ensures optimum marking results right from the first character
- The plotter is controlled with the CLIP PROJECT software
- The plotter can be connected to the computer quickly and easily via the Centronics or USB interface
- Easily operated with just a few buttons

Technical data			
Dimensions	[mm]	Width 440	Length 660
General data		Height 125	
Lettering field size	[mm]	440 x 296 mm	
Max. material height	[mm]	10.5	
Max. plotting speed	[m/s]	0.4	
Interfaces		Parallel (Centronics) / USB 2.0	
Input voltage / frequency	[V]	100 ... 240 / 50 Hz ... 60 Hz	
Weight	[kg]	8	
Operating systems		MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)	
Ordering data			
Description	Color	Type	Order No. Pcs. / Pkt.
Marking plotter, incl. power supply unit, connecting cable (Centronics and USB), pen CMS-PEN 0.25, manual, planning and marking software	silver	CMS-P1-PLOTTER	5144615 1
Accessories			
Starter set , consisting of: - CLIP PROJECT, - CMS-P1-PLOTTER, - Magazines for UC-TM , UC-TMF, and UC-EMP, plus marking material - Ink and cleaning set		CMS-P1-PLOTTER-KIT	5144628 1
Transport case for CMS-P1-PLOTTER, rounded profile case with aluminum frame for a complete plotter system		CMS-P1-PLOTTER-CASE	5144631 1
Covering hood for CMS-P1-PLOTTER, flexible hood for protecting against contamination		CMS-P1-PLOTTER-COVER	5144806 1
Set of seals for the pen station, 4 replacement seals for the pen station of the CMS-P1-PLOTTER and 10 marking preparation plates, incl. assembly tool		CMS-P1-PENDEPOT	5144835 1
Pen plates , for the pen station of the CMS-P1-PLOTTER		CMS-P1-PREPLATES	5145135 1
Magazines and pens			
See page 46			



CMS-P1-PLOTTER engraving unit

Engraving



- The P1 ENGRAVING UNIT is the ideal marking solution for device and component marking applications that involve high levels of mechanical and chemical stress
- The CMS-P1-PLOTTER can be converted into an engraving unit quickly and easily by swapping the plotter head for the engraving device
- To allow different line thicknesses, engraving chisels with diameters ranging from 0.2 ... 1.0 mm are available as accessories
- These are supplemented by a comprehensive product range of pre-assembled engraving materials see page 294
- These materials remain in position and do not slip when used with the CMS-P1-M/GPE ENGRAVING plotter magazine

Technical data			
Dimensions	Width [mm]	Length [mm]	Height
	250	350	
General data			
Power supply	[V]		
Weight	[kg]		
Speed range	[RPM]		
Collet chuck	[mm]		
Power consumption	[W]		
	110 ... 240 / 50 Hz ... 60 Hz		
	8		
	5000 ... 50000		
	3		
	150		

Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Engraving unit, for the CMS-P1-PLOTTER, incl. operating instructions (English/German), data CD and engraving chisel	P1 ENGRAVING UNIT	5145546	1

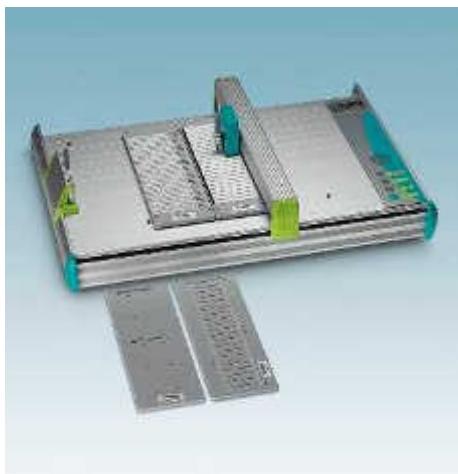
Accessories			
Engraving chisel, with a point angle of 15°	P1 GRAVER 0.2	5145478	1
Point diameter 0.2 mm	P1 GRAVER 0.3	5145481	1
Point diameter 0.3 mm	P1 GRAVER 0.4	5145494	1
Point diameter 0.4 mm	P1 GRAVER 0.5	5145504	1
Point diameter 0.5 mm	P1 GRAVER 0.7	5145517	1
Point diameter 0.7 mm	P1 GRAVER 1.0	5145520	1
Point diameter 1.0 mm			
Engraving chisel set, chisel with a point angle of 15°, point diameter: 0.2 mm, 0.3 mm, 0.4 mm, 0.5 mm, 0.7 mm, 1.0 mm	P1 GRAVER SET	5145533	1
Vacuum cleaner bag, 5 spare bags for replacement	P1 ENGRAVING VC BAG	5145559	1
Magazine for the CMS-P1-PLOTTER, for accommodating EMLP... and GPE... materials for engraving	CMS-P1-M/GPE ENGRAVING	5145711	1
- 1 GPE label sheet			



Marking and labeling - MARKING system

Printing systems

Magazines for CMS-P1-PLOTTER



- Robust plastic magazines for labeling all commercially available marking materials
- Even compatible with marking sheets that have already been started
- Option of partial labeling
- In terms of its size, the magazine utilizes plotter capacity to the full
- We offer a wide variety of different magazines for marking materials. If you cannot find the right magazine for your materials, please get in touch



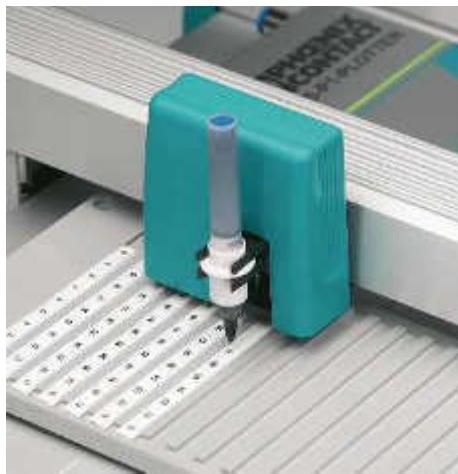
Ordering data				
Description	Color	Type	Order No.	Pcs. / Pkt.
Magazine, for CMS-P1-PLOTTER , for accommodating: UC-TM..., UC-TMN..., UC3-TM..., UC-WMC 1,9..., UC-WMC 3,1..., UC-WMTBA..., UC-EM (17,5x9), UC-EM (18x8), UC-EM (21x8)				
For accommodating UC-WMC 4,4...	gray	P1 UC-MAG 1	5146079	1
For accommodating UC-WMC 5,6...	gray	P1 UC-MAG 2	5146082	1
UC-WMC 7,5...	gray	P1 UC-MAG 3	5146095	1
For accommodating UC-TMF..., UC1-TMF..., UC2F-TM..., UC-WMT...	gray	P1 UC-MAG 4	5146105	1
For accommodating UC1-TM..., UC1U-TM..., UC2-TM...	gray	P1 UC-MAG 5	5146118	1
For accommodating: UC-EM..., UC-EMP..., UC-EMLP..., UC-EMSP..., and UC-WMTB...	gray	P1 UC-MAG 6	5146121	1
For accommodating: UC-WMCO ...	gray	P1 UC-MAG 7	5146568	1
Plastic magazines, for CMS-P1-PLOTTER , for accommodating:				
- 22 zack marker strips		CMS-P1-M/ZB	5144699	1
		CMS-P1-M/ZBF	5144709	1
- 26 flat zack marker strips or ZBN strips		CMS-P1-M/ZBM	5144660	1
		CMS-P1-M/ZBFM	5144686	1
- 2 zack marker sheets		CMS-P1-M/SS-ZB	5144712	1
- 3 flat zack marker sheets		CMS-P1-M/PAB	5144741	1
- 22 contactor marker zack marker strips		CMS-P1-M/BN-ZB	5144725	1
- 4 to 6 PABA marker bars		CMS-P1-M/GPE	5144754	1
- 30 marker pins ZB strips		CMS-P1-M/LBHZ	5144738	1
- 1 GPE label sheet		CMS-P1-M/GPE ENGRAVING	5145711	1
- 20 strips LBHZ conductor marking				
- 1 GPE label sheet				
Magazine for accommodating sheet material , self-adhesive mat for fixing labels, foils and paper, size of sheet max. DIN A4		CMS-P1-PAD	5144819	1
Accessories				
Adapter plate for WMU magazines , for using the universal CMS-WMU replaceable frame with the magazine inserts of the CMS-MCP 3 plotter		CMS-P1-WMU-ADAPTER	5144822	1
Replacement fixation pad for CMS-P1-M/ZBFM , 9 self-adhesive fixation pads, sufficient for 3 magazines		CMS-P1-M/ZBFM-PAD	5144848	1
Replacement fixation pad for CMS-P1-M/GPE and CMS-P1-M/GPE ENGRAVING , one fixation pad, sufficient for one magazine		CMS-P1-M/GPE-PAD	5144880	1
Replacement fixation pad for CMS-P1-PAD , 1 fixation pad in DIN A4 format		CMS-P1-PAD/SPARE	5144893	1

Plotter pens

- Plotter pens for high-quality product labeling
- Wipe-resistant with a perfect appearance
- Totally integrated product range consisting of plotter pens, ink, and cleaning fluid for the CMS-P1-PLOTTER plotter
- Both reusable and disposable plotter pens are available



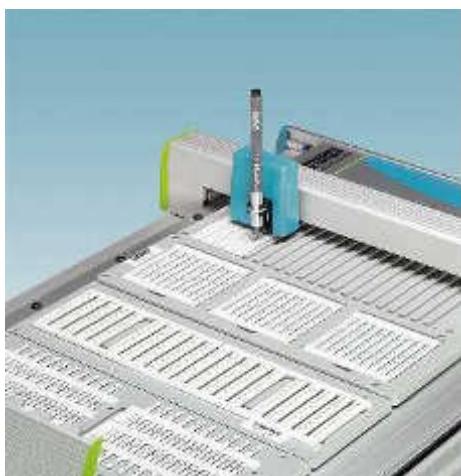
Ordering data				
Description	Color	Type	Order No.	Pcs. / Pkt.
Disposable plotter pen , non-refillable plotter pen, with pen station, completely filled with 1 ml CMS-INK-TR-C 5 ink, for high requirements				
Line thickness 0.25 mm	black	CMS-DISPOSABLE-PEN 0,25 TR	5146685	1
Line thickness 0.35 mm	black	CMS-DISPOSABLE-PEN 0,35 TR	5146686	1
Pens , incl. adapters, ink tank and pen station, for different line thicknesses, without ink				
Line thickness 0.25 mm		CMS-PEN 0,25	5067815	1
Line thickness 0.35 mm		CMS-PEN 0,35	5067828	1
Line thickness 0.50 mm		CMS-PEN 0,50	5067831	1
Accessories				
Cleaning set for pens , consisting of: 1 cleaning cup, 2 cartridges of 10 ml cleaning liquid each and 2 spare sealing caps for the pen station				
		CMS-R-SET-TR	5146751	1
Cleaning cartridges with spare sealing caps , 2 cartridges, each with 10 ml cleaning liquid and 2 caps				
		CMS-R-FLUID-TR-C2	5146752	1
Ink cartridge , for CMS-PEN...	transparent	CMS-INK-TR-C5	5146684	1
	black			



Marking and labeling - MARKING system

Printing systems

Marker pen for plotter and manual labeling



- High-quality labeling of unprinted marking materials, can be performed manually or with the CMS-P1-PLOTTER
- Used in conjunction with the P-PEN ADAPTER when combined with plotter
- Disposable pen
- No handling of cleaning fluid required



Ordering data			
Description	Color	Type	Order No.
Disposable pen, non-refillable, for manual labeling, can be also used for plotter marking when combined with the P-PEN ADAPTER	black	P-PEN	0815211
Accessories			
Aluminum adapter, to fix the P-PEN for plotter marking		P-PEN ADAPTER	0815224

Marker pen for manual labeling



- High-quality labeling of unprinted marking materials is also possible without the use of labeling devices
- We provide three versions for manual marking
- Refillable pen: X-PEN
- Disposable pen: B-STIFT
- Disposable pen: P-PEN, can also be used for plotter marking when combined with an adapter

Ordering data			
Description	Color	Type	Order No.
Marker pen, refillable, for manual labeling, 0.35 mm line thickness, can be refilled with CMS-INK-TR-C 5, delivered without ink	black	X-PEN 0,35	0811228
Accessories			
Ink cartridge, for CMS-PEN...	black	CMS-INK-TR-C5	5146684

Marker pen for manual labeling

- High-quality labeling of unprinted marking materials is also possible without the use of labeling devices
- We provide three versions for manual marking
- Refillable pen: X-PEN
- Disposable pen: B-STIFT
- Disposable pen: P-PEN, can also be used for plotter marking when combined with an adapter



Ordering data			
Description	Color	Type	Order No.
Marker pen, not refillable, for manual labeling, line thickness 0.5 mm	black	B-STIFT	1051993

Marking and labeling - MARKING system

Printing systems

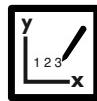
Overview of marking material - printers



Marking system	BLUemark CLED	THERMOMARK CARD PLUS	THERMOMARK CARD	THERMOMARK ROLL
Terminal marking				
UC-TM...	Page 58			
UC-TMF...	Page 62			
UC-TMN...	Page 66			
UCT-TM...	Page 82	Page 82	Page 82	
UCT-TMF...	Page 86	Page 86	Page 86	
UC1-TM...	Page 118			
UCT1...	Page 128	Page 128	Page 128	
UCT-EM...	Page 108	Page 108	Page 108	
US-TM...		Page 90	Page 90	
US-TMF...		Page 91	Page 91	
US-TML...		Page 92	Page 92	
ZB...				
ZBF...				
TMT...				Page 94
TML...				Page 98
SK...				Page 105

Conductor/cable marking

WMTB-AL...	Page 161			
UC-WMC(O)...	Page 162			
AI-WM...	Page 175			
UC-WMT...	Page 176			
UC-WMTB(A)...	Page 179			
UCT-WMT...	Page 182	Page 182	Page 182	
UCT-WMS...	Page 186	Page 186	Page 186	
US-WMT...		Page 187	Page 187	
US-WMTB...		Page 190	Page 190	
US-WML...		Page 192	Page 192	
VML...R				Page 194
WMS... (pre-assembled)				Page 200
VMS... (continuous shrink sleeve)				Page 204
EMT...				Page 208
WMTW...				Page 209
WMT.../WMTB...				Page 210



THERMOMARK ROLL X1

THERMOMARK X1.2

THERMOMARK W2

CMS-P1-PLOTTER

P1 ENGRAVING UNIT

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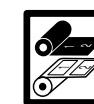
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Marking and labeling - MARKING system

Printing systems

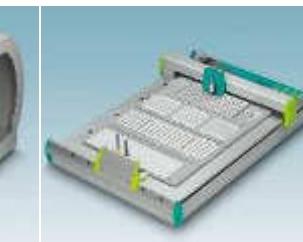
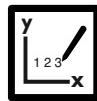
Overview of marking material - printers



Marking system	BLUemark CLED	THERMOMARK CARD PLUS	THERMOMARK CARD	THERMOMARK ROLL
Device marking				
EMLP-AL...	Page 231			
EMSP-AL...	Page 232			
EMP-AL...	Page 233			
UC-EMLP...	Page 234			
UC-EMSP...	Page 236			
UC-EMP...	Page 237			
UC-EM...	Page 240			
UCT-EM...	Page 246	Page 246	Page 246	
US-EMLP...		Page 258	Page 258	
US-EMP...		Page 262	Page 262	
US-EMSP...		Page 266	Page 266	
US-EMLSP...		Page 267	Page 267	
US-EML...		Page 268	Page 268	
US-EMLF...		Page 354	Page 354	
EML...				Page 270
EMLP...				Page 274
EMLF...				Page 278
EMLC...				Page 279
EML-HA...				Page 280
EML-HT...				Page 282
EML-ESD...				Page 284
EML-RM...				Page 286
EMLS...				Page 288
EMT...				Page 290
GPE...				
BMK...				
BMKL...				

System marking

US-PML-W...	Page 320	Page 320	
PML-W...			Page 321
US-PML-P...	Page 326	Page 326	
PML-P...			Page 327
US-PML-M...	Page 334	Page 334	
PML-M...			Page 335
PML-T...			Page 342
US-PML-GHS...	Page 348	Page 348	
PML-GHS...			Page 349
US-EMLF...	Page 354	Page 354	
PMM...			Page 356



THERMOMARK ROLL X1

THERMOMARK X1.2

THERMOMARK W2

CMS-P1-PLOTTER

P1 ENGRAVING UNIT

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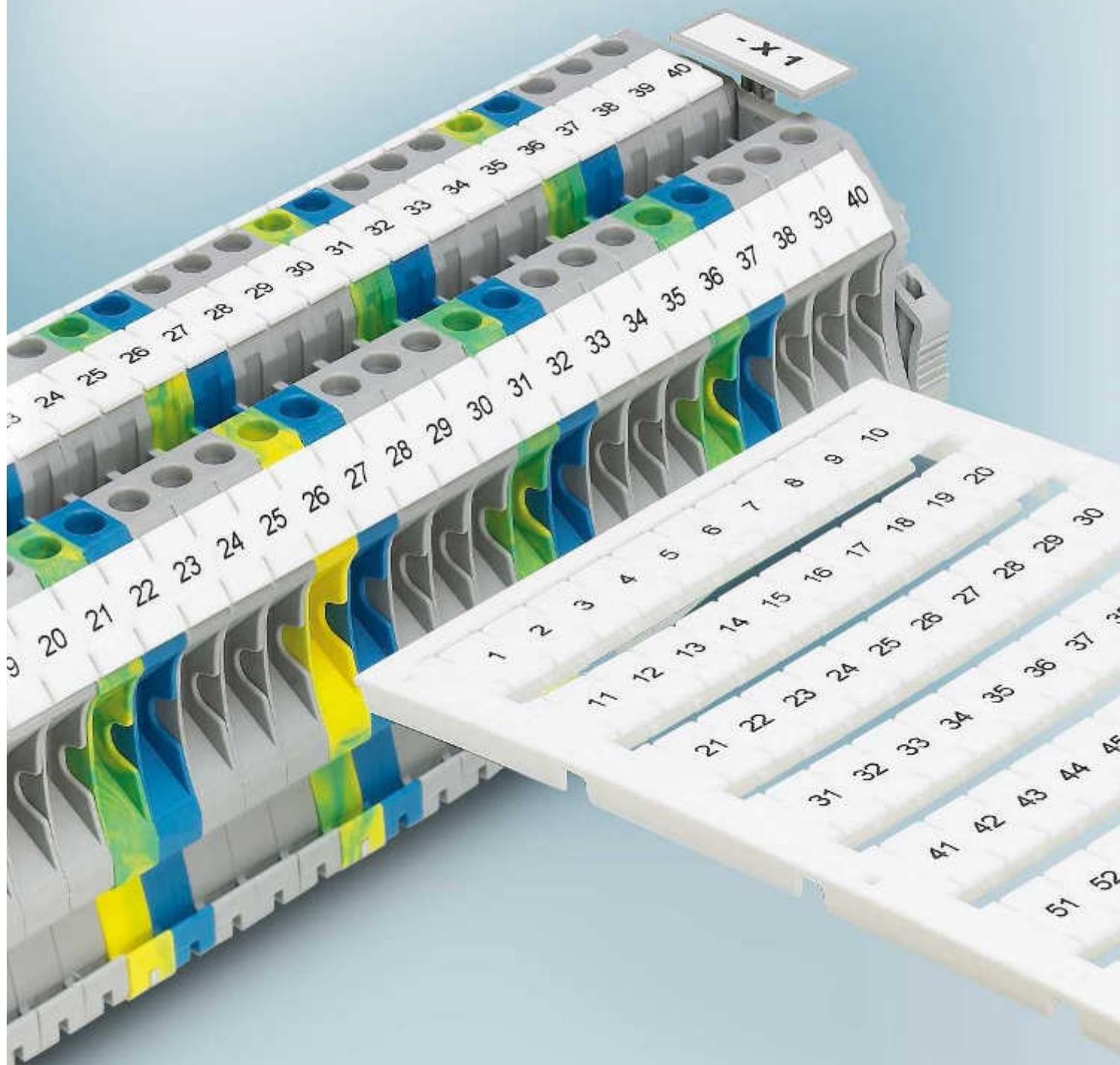
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Terminal marking - MARKING system

Large-surface and clear marking of terminal strips is essential for quick and error-free wiring of terminal strips. This is also true for the maintenance and startup of control cabinets and systems.

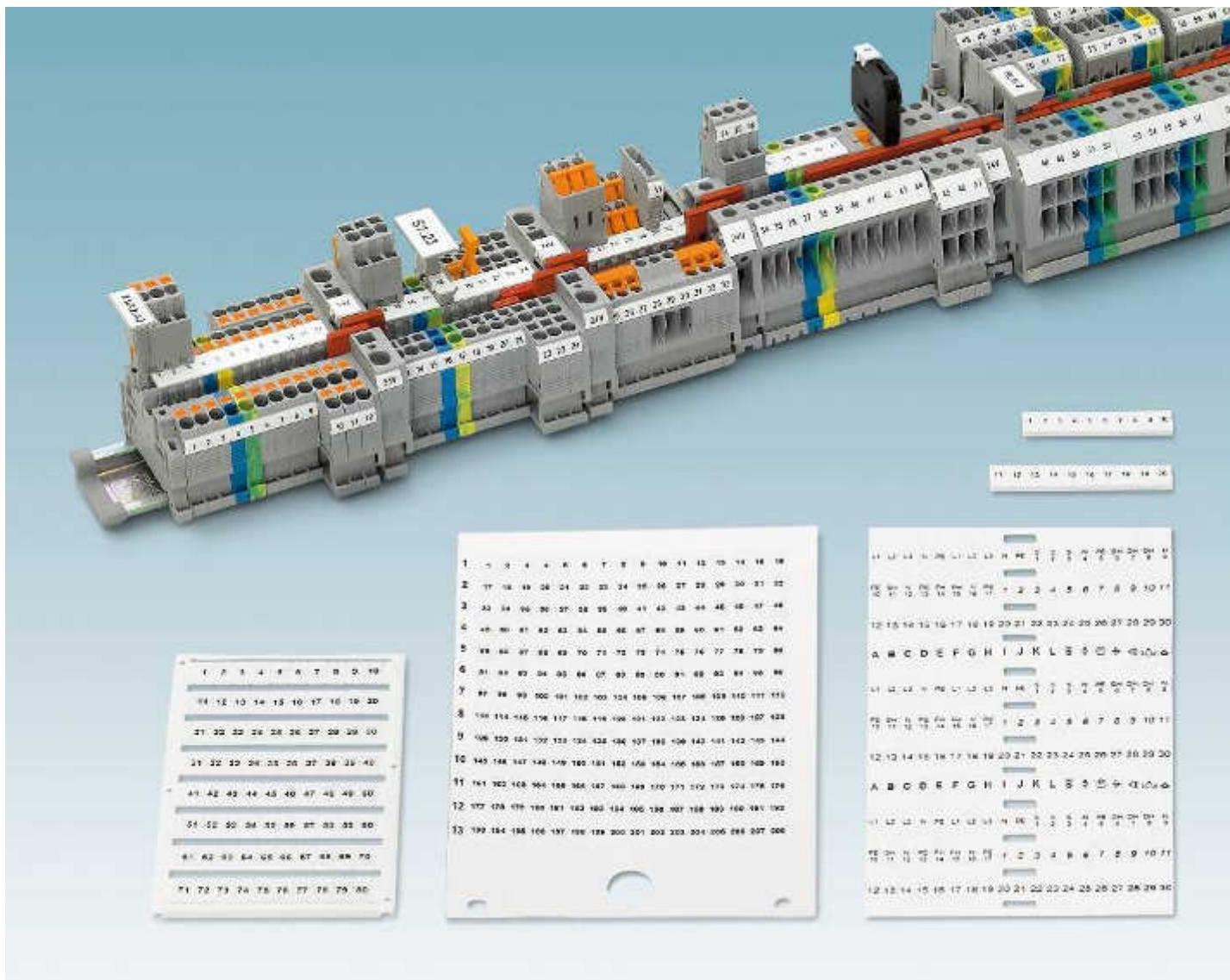
Terminal markers from Phoenix Contact are optimally adapted to the terminals and are available marked or unmarked in card, roll or sheet format.

Product range overview

Terminal marking	56
UniCard UC-TM... terminal marking	
For a tall marker groove	58
For a flat marker groove	62
ZB... zack marker strip terminal marking	
For a tall marker groove	68
For a flat marker groove	76
UniCard UCT-TM... terminal marking	
For a tall marker groove	82
For a flat marker groove	86
UniSheet US-TM... terminal marking	
For a universal marker groove	90
For a flat marker groove	91
TMT... terminal marking supplied in rolls	
Marker strips for tall and flat marker grooves	94
TML... terminal marking supplied in rolls	
Self-adhesive markers for terminal blocks without marker groove	98
SK... terminal marking supplied as card material	
Self-adhesive markers for terminal blocks without marker groove	100
Group marker labels and warning labels	
Overview of terminal marking for Phoenix Contact	
The right marking solution for every terminal	112
Terminal marking for terminal blocks from other manufacturers	
Overview of terminal marking for other manufacturers	
Phoenix Contact offers the right marking solution for every terminal	140
Ordering example for labeling service - printed for you	
	359

Marking and labeling - MARKING system

Terminal marking



Those involved in control cabinet and system engineering are required to ensure meaningful labeling of electrical connecting elements and control cabinet components. As with comprehensive documentation, precise labeling of all terminal points makes it easier to set up and maintain the systems concerned. EN 60204-1/VDE 0113 Part 1 stipulates requirements concerning consistent system labeling and, therefore, for ensuring that it matches the technical documentation.

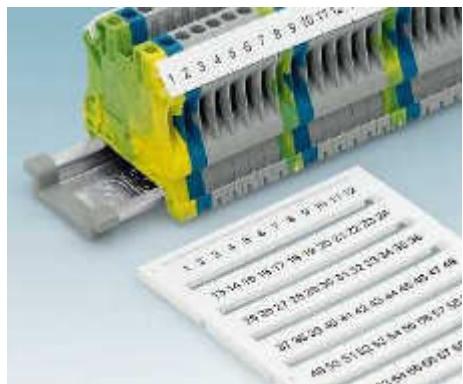
Various marking materials are available for labeling Phoenix Contact terminal blocks. The labeling strips can be easily separated by hand, and their special geometry ensures that the labeling remains in place even in the event of impact and vibration in machines and vehicles.

The terminal markers are available in strips or sheets and with or without labeling in accordance with customer requirements. Depending on the version, unlabeled terminal markers can be labeled using the various printing systems available from Phoenix Contact.

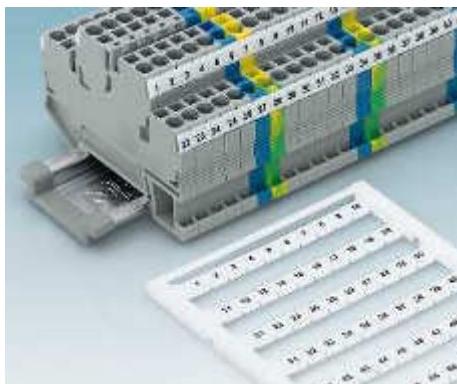
- Markers in UniCard format can be quickly and reliably labeled using the new BLUE-MARK CLED printer
- Markers in UniSheet format can be quickly and reliably labeled using the new THERMOMARK CARD printer
- Material off the roll has been specially developed for labeling using thermal transfer printers, e.g., from the new THERMO-MARK LINE series from Phoenix Contact
- Zack marker strips are ideal for labeling with the plotter, but can also be labeled directly by hand.

All marking systems are characterized by their high resolution and excellent wipe resistance.

Various marking labels are available for labeling terminal block groups in addition to the labeling of the actual terminal points. These are snapped into the marking grooves of terminal blocks. Details of group marking products that can be fixed to end brackets can be found in the chapter titled Mounting material starting on page 483.



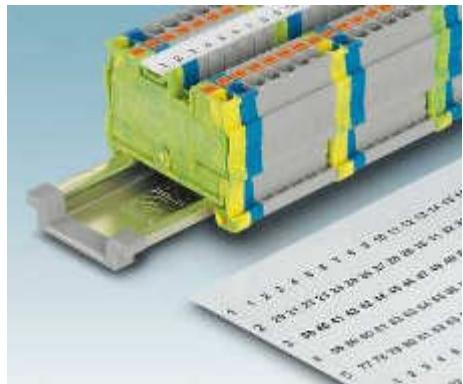
Markers are available in the UniCard and UniSheet formats for the labeling of terminal blocks with a tall marker groove. They can be supplied unprinted or printed in accordance with customer requirements.



Markers are available in the UniCard and UniSheet formats for terminal blocks, modules, and connectors with a flat marker groove. They can be supplied unprinted or printed in accordance with customer requirements.



Miniature terminal blocks/transformer terminal blocks have neither a tall nor a flat marker groove. Special markers are available in UniCard format for the purpose of labeling such terminal blocks.



The universal marker groove can be labeled with markers in UniSheet format. These are available unprinted or printed in accordance with customer requirements.



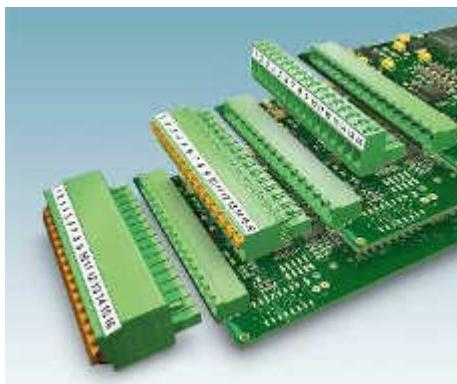
10-section zack marker strips are available in tall and flat versions. They are used to mark modular terminal blocks, modules or connectors and can be supplied unprinted or printed.



Unlabeled zack marker strips can accommodate printed marker strips. Once printed, the self-adhesive strip is simply stuck onto the zack marker strip.



The marker strips can be used in both tall and flat marker grooves. They can be easily separated by hand since they are pre-perforated for the pitch.



Self-adhesive marker strips can be applied to all PCB terminal blocks and COMBICON plug-in connectors. They can be supplied printed on cards or unprinted on a roll.



Markers are available in both UniCard and UniSheet formats for labeling modular terminal blocks from other manufacturers.

Marking and labeling - MARKING system

Terminal marking

UniCard terminal marking for a tall marker groove



- The UC-TM ... UniCard labeling range includes markers for products with tall marker grooves
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK CLED
- The format automatically ensures printing with a high level of positional accuracy
- The multi-section marking strips are easy to fit and can be easily separated if required
- The markers support multiline labeling
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

An overview of the markable terminal blocks that are available from Phoenix Contact can be found starting on page 112.

¹⁾ For ordering example, see page 359.

Can be printed with:



UV LED technology



Plotter



120 markers for a terminal block width of 4.2 mm

Technical data

General data

Can be printed with:

Number of individual labels

Number of individual labels per strip

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

120

15

PA

V2

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for labeling terminal blocks with a marker groove				
	white	UC-TM 4	0818111	10
	red	UC-TM 4 RD	0818250	10
	orange	UC-TM 4 OG	0818221	10
	yellow	UC-TM 4 YE	0818234	10
	violet	UC-TM 4 VT	0819084	10
	blue	UC-TM 4 BU	0818247	10
	green	UC-TM 4 GN	0818263	10
UniCard, for labeling terminal blocks with a marker groove, labeled acc. to customer specifications ¹⁾				
	white	UC-TM 4 CUS	0824573	1
	red	UC-TM 4 RD CUS	0824577	1
	orange	UC-TM 4 OG CUS	0824576	1
	yellow	UC-TM 4 YE CUS	0824579	1
	violet	UC-TM 4 VT CUS	0824578	1
	blue	UC-TM 4 BU CUS	0824574	1
	green	UC-TM 4 GN CUS	0824575	1

Accessories

Magazine, for CMS-P1-PLOTTER	P1 UC-MAG 1	5146079	1
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96 markers for a terminal block width of
5.2 mm



80 markers for a terminal block width of
6.2 mm



56 markers for a terminal block width of
8.2 mm

Technical data			Technical data			Technical data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER			BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER			BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER		
96	0818108	10	80	0818357	10	56	0818072	10
12	0818302	10	10	0818328	10	7	0818409	10
PA	0818276	10	PA	0818331	10	PA	0818373	10
V2	0818289	10	V2	0819110	10	V2	0818386	10
-40 ... 120	0819107	10	-40 ... 120	0818344	10	-40 ... 120	0819123	10
DIN EN 61010-1 (VDE 0411-1)	0818292	10	DIN EN 61010-1 (VDE 0411-1)	0818360	10	DIN EN 61010-1 (VDE 0411-1)	0818399	10
free from silicone and halogen	0818315	10	free from silicone and halogen			free from silicone and halogen	0818412	10
Ordering data			Ordering data			Ordering data		
UC-TM 5	0818108	10	UC-TM 6	0818085	10	UC-TM 8	0818072	10
UC-TM 5 RD	0818302	10	UC-TM 6 RD	0818357	10	UC-TM 8 RD	0818409	10
UC-TM 5 OG	0818276	10	UC-TM 6 OG	0818328	10	UC-TM 8 OG	0818373	10
UC-TM 5 YE	0818289	10	UC-TM 6 YE	0818331	10	UC-TM 8 YE	0818386	10
UC-TM 5 VT	0819107	10	UC-TM 6 VT	0819110	10	UC-TM 8 VT	0819123	10
UC-TM 5 BU	0818292	10	UC-TM 6 BU	0818344	10	UC-TM 8 BU	0818399	10
UC-TM 5 GN	0818315	10	UC-TM 6 GN	0818360	10	UC-TM 8 GN	0818412	10
UC-TM 5 CUS	0824581	1	UC-TM 6 CUS	0824589	1	UC-TM 8 CUS	0824597	1
UC-TM 5 RD CUS	0824585	1	UC-TM 6 RD CUS	0824593	1	UC-TM 8 RD CUS	0824601	1
UC-TM 5 OG CUS	0824584	1	UC-TM 6 OG CUS	0824592	1	UC-TM 8 OG CUS	0824600	1
UC-TM 5 YE CUS	0824587	1	UC-TM 6 YE CUS	0824595	1	UC-TM 8 YE CUS	0824603	1
UC-TM 5 VT CUS	0824586	1	UC-TM 6 VT CUS	0824594	1	UC-TM 8 VT CUS	0824602	1
UC-TM 5 BU CUS	0824582	1	UC-TM 6 BU CUS	0824590	1	UC-TM 8 BU CUS	0824598	1
UC-TM 5 GN CUS	0824583	1	UC-TM 6 GN CUS	0824591	1	UC-TM 8 GN CUS	0824599	1
Accessories			Accessories			Accessories		
P1 UC-MAG 1	5146079	1	P1 UC-MAG 1	5146079	1	P1 UC-MAG 1	5146079	1

Marking and labeling - MARKING system

Terminal marking

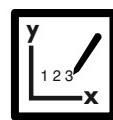
UniCard terminal marking for a tall marker groove



Can be printed with:



UV LED technology



Plotter



48 markers for a terminal block width of 10.2 mm

- The UC-TM ... UniCard labeling range includes markers for products with tall marker grooves
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK CLED
- The format automatically ensures printing with a high level of positional accuracy
- The multi-section marking strips are easy to fit and can be easily separated if required
- The markers support multiline labeling
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

An overview of the markable terminal blocks that are available from Phoenix Contact can be found starting on page 112.

1) For ordering example, see page 359.

General data

Can be printed with:

Number of individual labels
Number of individual labels per strip
Material
Inflammability class according to UL 94
Temperature range
Wipe resistance
Components

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

48

6

PA

V2

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Technical data

Description

[°C]

UniCard, for labeling terminal blocks with a marker groove



40 markers for a terminal block width of 12 mm



32 markers for a terminal block width of 16 mm

Technical data			Technical data		
BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER			BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER		
40	32		5	4	
PA	PA		V2	V2	
V2	-40 ... 120		V2	-40 ... 120	
-40 ... 120	DIN EN 61010-1 (VDE 0411-1)		-40 ... 120	DIN EN 61010-1 (VDE 0411-1)	
free from silicone and halogen			free from silicone and halogen		
Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UC-TM 12	0819194	10	UC-TM 16	0819217	10
UC-TM 12 RD	0817701	10	UC-TM 16 RD	0817798	10
UC-TM 12 OG	0817691	10	UC-TM 16 OG	0817772	10
UC-TM 12 YE	0819204	10	UC-TM 16 YE	0819220	10
UC-TM 12 VT	0822660	10	UC-TM 16 VT	0822673	10
UC-TM 12 BU	0817785	10	UC-TM 16 BU	0817769	10
UC-TM 12 GN	0817808	10	UC-TM 16 GN	0817756	10
UC-TM 12 CUS	0824613	1	UC-TM 16 CUS	0824621	1
UC-TM 12 RD CUS	0824617	1	UC-TM 16 RD CUS	0824625	1
UC-TM 12 OG CUS	0824616	1	UC-TM 16 OG CUS	0824624	1
UC-TM 12 YE CUS	0824619	1	UC-TM 16 YE CUS	0824627	1
UC-TM 12 VT CUS	0824618	1	UC-TM 16 VT CUS	0824626	1
UC-TM 12 BU CUS	0824614	1	UC-TM 16 BU CUS	0824622	1
UC-TM 12 GN CUS	0824615	1	UC-TM 16 GN CUS	0824623	1
Accessories			Accessories		
P1 UC-MAG 1	5146079	1	P1 UC-MAG 1	5146079	1

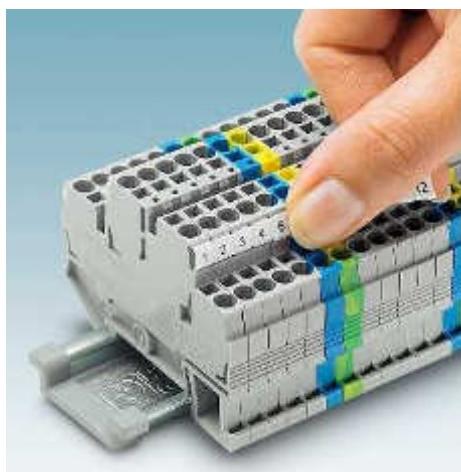
PRINTED
FOR YOUPRINTED
FOR YOUPRINTED
FOR YOU96 markers for a terminal block width of
5.2 mm80 markers for a terminal block width of
6.2 mm56 markers for a terminal block width of
8.2 mm

Technical data			Technical data			Technical data		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UC-TMF 5	0818153	10	UC-TMF 6	0818140	10	UC-TMF 8	0818137	10
UC-TMF 5 RD	0818551	10	UC-TMF 6 RD	0818603	10	UC-TMF 8 RD	0818658	10
UC-TMF 5 OG	0818522	10	UC-TMF 6 OG	0818577	10	UC-TMF 8 OG	0818629	10
UC-TMF 5 YE	0818535	10	UC-TMF 6 YE	0818580	10	UC-TMF 8 YE	0818632	10
UC-TMF 5 VT	0815907	10	UC-TMF 6 VT	0815910	10	UC-TMF 8 VT	0815923	10
UC-TMF 5 BU	0818548	10	UC-TMF 6 BU	0818593	10	UC-TMF 8 BU	0818645	10
UC-TMF 5 GN	0818564	10	UC-TMF 6 GN	0818616	10	UC-TMF 8 GN	0818661	10
UC-TMF 5 CUS	0824638	1	UC-TMF 6 CUS	0824646	1	UC-TMF 8 CUS	0824654	1
UC-TMF 5 RD CUS	0824642	1	UC-TMF 6 RD CUS	0824650	1	UC-TMF 8 RD CUS	0824658	1
UC-TMF 5 OG CUS	0824641	1	UC-TMF 6 OG CUS	0824649	1	UC-TMF 8 OG CUS	0824657	1
UC-TMF 5 YE CUS	0824644	1	UC-TMF 6 YE CUS	0824652	1	UC-TMF 8 YE CUS	0824660	1
UC-TMF 5 VT CUS	0824643	1	UC-TMF 6 VT CUS	0824651	1	UC-TMF 8 VT CUS	0824659	1
UC-TMF 5 BU CUS	0824639	1	UC-TMF 6 BU CUS	0824647	1	UC-TMF 8 BU CUS	0824655	1
UC-TMF 5 GN CUS	0824640	1	UC-TMF 6 GN CUS	0824648	1	UC-TMF 8 GN CUS	0824656	1
Accessories			Accessories			Accessories		
P1 UC-MAG 4	5146105	1	P1 UC-MAG 4	5146105	1	P1 UC-MAG 4	5146105	1

Marking and labeling - MARKING system

Terminal marking

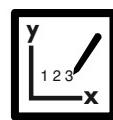
UniCard terminal marking for a flat marker groove



Can be printed with:



UV LED technology



Plotter



48 markers for a terminal block width of 10.2 mm

- The UC-TMF ... UniCard labeling range includes markers for products with tall and flat marker grooves
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

1) For ordering example, see page 359.

General data

Can be printed with:

Number of individual labels	48
Number of individual labels per strip	6
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 °C
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	free from silicone and halogen

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

48

6

PA

V2

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Technical data

Description

Color

UniCard materials, for labeling terminal blocks with a flat marker groove

Type	Order No.	Pcs. / Pkt.
UC-TMF 10	0818124	10
UC-TMF 10 RD	0818700	10
UC-TMF 10 OG	0818674	10
UC-TMF 10 YE	0818687	10
UC-TMF 10 VT	0815981	10
UC-TMF 10 BU	0818690	10
UC-TMF 10 GN	0818713	10

UniCard, for labeling terminal blocks with a flat marker groove, labeled acc. to customer specifications¹⁾

Type	Order No.	Pcs. / Pkt.
UC-TMF 10 CUS	0824662	1
UC-TMF 10 RD CUS	0824666	1
UC-TMF 10 OG CUS	0824665	1
UC-TMF 10 YE CUS	0824668	1
UC-TMF 10 VT CUS	0824667	1
UC-TMF 10 BU CUS	0824663	1
UC-TMF 10 GN CUS	0824664	1

Accessories

Magazine, for CMS-P1-PLOTTER

P1 UC-MAG 4

5146105

1





40 markers for a terminal block width of 12 mm

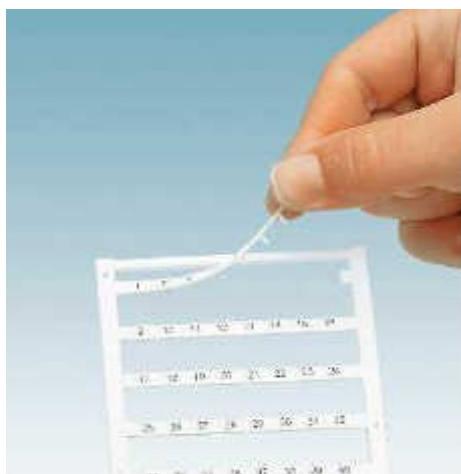
32 markers for a terminal block width of 16 mm

Technical data			Technical data		
BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER			BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER		
40			32		
5			4		
PA			PA		
V2			V2		
-40 ... 120			-40 ... 120		
DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen			DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen		
Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UC-TMF 12	0819233	10	UC-TMF 16	0819262	10
UC-TMF 12 RD	0817840	10	UC-TMF 16 RD	0817824	10
UC-TMF 12 OG	0817866	10	UC-TMF 16 OG	0817811	10
UC-TMF 12 YE	0819246	10	UC-TMF 16 YE	0819259	10
UC-TMF 12 VT	0822686	10	UC-TMF 16 VT	0822699	10
UC-TMF 12 BU	0817853	10	UC-TMF 16 BU	0817905	10
UC-TMF 12 GN	0817837	10	UC-TMF 16 GN	0817921	10
UC-TMF 12 CUS	0824670	1	UC-TMF 16 CUS	0824678	1
UC-TMF 12 RD CUS	0824674	1	UC-TMF 16 RD CUS	0824682	1
UC-TMF 12 OG CUS	0824673	1	UC-TMF 16 OG CUS	0824681	1
UC-TMF 12 YE CUS	0824676	1	UC-TMF 16 YE CUS	0824684	1
UC-TMF 12 VT CUS	0824675	1	UC-TMF 16 VT CUS	0824683	1
UC-TMF 12 BU CUS	0824671	1	UC-TMF 16 BU CUS	0824679	1
UC-TMF 12 GN CUS	0824672	1	UC-TMF 16 GN CUS	0824680	1
Accessories			Accessories		
P1 UC-MAG 4	5146105	1	P1 UC-MAG 4	5146105	1

Marking and labeling - MARKING system

Terminal marking

UniCard terminal marking for marking stud holders



- The UC-TMN ... UniCard labeling range includes markers for products with a marking stud holder, such as mini terminal blocks, transformer terminal blocks or COMBICON PCB connection terminal blocks
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK CLED
- The format automatically ensures printing with a high level of positional accuracy
- The multi-section marking strips are easy to fit and can be easily separated if required
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

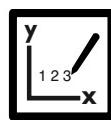
An overview of the markable terminal blocks that are available from Phoenix Contact can be found starting on page 112.

1) For ordering example, see page 359.

Can be printed with:



UV LED technology



Plotter



Stud-type markers for terminal block widths of
5.2 / 7.5 / 10 mm

Technical data

General data

Can be printed with:

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

PA

V2

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for labeling transformer terminal blocks				
96-section	white	UC-TMN 5,2	0822945	10
64-section	white	UC-TMN 7,5	0821823	10
48-section	white	UC-TMN 10	0828554	10

Accessories

Magazine, for CMS-P1-PLOTTER	P1 UC-MAG 1	5146079	1
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PRINTED
FOR YOU

Labeled according to customer specifications

Technical data

-
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
UC-TMN 5,2 CUS	0826857	1
UC-TMN 7,5 CUS	0824690	1
UC-TMN 10 CUS	0829109	1

Accessories

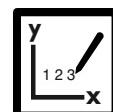
Marking and labeling - MARKING system

Terminal marking

Zack marker strip terminal marking for a tall marker groove



Can be printed with:



Plotter



Markers for a terminal block width of 3.5 mm

- The ZB zack marker strip system is a labeling solution for modular terminal blocks and electronic modules with tall marker grooves
- The multi-section marking strips are easy to fit and can be easily separated if required
- Different pitches are possible on request
- Unlabeled marking strips can be custom-labeled with a plotter or by hand
- Labeling service: Phoenix Contact can custom-label all zack marker strip markers in accordance with your requirements

Selection of labeling direction

- Please take care to select the correct labeling direction for printed products
- ① "Printed horizontally" labeling, text is the right way round for a horizontally arranged terminal strip
- ② "Printed vertically" labeling, text is the right way round for a vertically arranged terminal strip

Notes:

1) 10 identically marked strips make up one packing unit (PU).

2) For ordering example, see page 359.

General data

Can be printed with:

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

CMS-P1-PLOTTER

PA

V2

-40 ... 100

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Technical data

Description

Color

Zack marker strip, 10-section, unprinted: pack contains enough to label 100 terminal blocks

as above, however, large batch, sufficient for 1000 terminal blocks

white

white

ZB 3,5:UNBEDRUCKT

0829414

Pcs. /
Pkt.

10

Zack marker strip, printed horizontally, ten sections with consecutive numbers, e.g., 1 - 10, 11 - 20, etc. up to 91 - 100, (ZB 3,5 and ZB 4, max. 2 digits)¹⁾

white

ZB 3,5,LGS:FORTL.ZAHLEN

0801404

10

Zack marker strip, printed horizontally, 10-section, with same numbers, e.g., 1/1/1, 2/2/2, etc. up to 100/100/100¹⁾

white

Zack marker strip, 10-section, printed horizontally: with L1, L2, L3, N, PE¹⁾

white

Zack marker strip, printed vertically, 10-section, with consecutive numbers, e.g., 1-10, 11-20, etc. up to 91-100¹⁾

white

ZB 3,5,QR:FORT.ZAHLEN

0801405

10

Special marking zack marker strip, 10-section, separable, labeled acc. to customer specifications, (ZB 3,5 and ZB 4, max. 2 digits), please specify the required marking when ordering²⁾

white

ZB 3,5 CUS

0829415

1

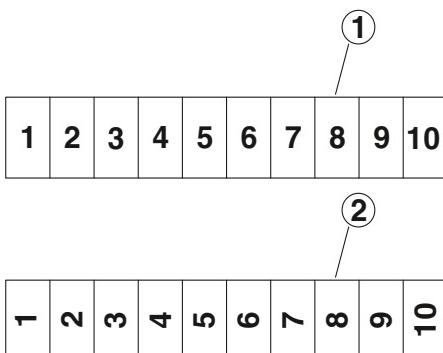
Accessories

Magazine, for CMS-P1-PLOTTER

CMS-P1-M/ZB

5144699

1





Markers for a terminal block width of 4.2 mm

Markers for a terminal block width of 5.2 mm

Markers for a terminal block width of 5.08 mm

Technical data			Technical data			Technical data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen			CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen			CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen		
ZB 4 :UNBEDRUCKT ZB 4/WH-100:UNBEDRUCKT	0805001 0805810	10 100	ZB 5 :UNBEDRUCKT ZB 5/WH-100:UNBEDRUCKT	1050004 5060906	10 100	ZB 5,08:UNBEDRUCKT	0809793	10
ZB 4,LGS:FORTL.ZAHLEN	0805739	10	ZB 5,LGS:FORTL.ZAHLEN	1050017	10	ZB 5,08,LGS:FORTL.ZAHLEN	0809803	10
			ZB 5,LGS:GLEICHE ZAHLEN	1050033	10	ZB 5,08,LGS:L1-N,PE ZB 5,08,LGS:U-N	0809832 0809845	10 10
ZB 4,QR:FORTL.ZAHLEN	0805807	10	ZB 5,QR:FORTL.ZAHLEN	1050020	10	ZB 5,08,QR:FORTL.ZAHLEN	0809858	10
ZB 4 CUS	0824951	1	ZB 5 CUS	0824962	1	ZB 5,08 CUS	0824963	1
Accessories			Accessories			Accessories		
CMS-P1-M/ZB	5144699	1	CMS-P1-M/ZB	5144699	1	CMS-P1-M/ZB	5144699	1

Marking and labeling - MARKING system

Terminal marking

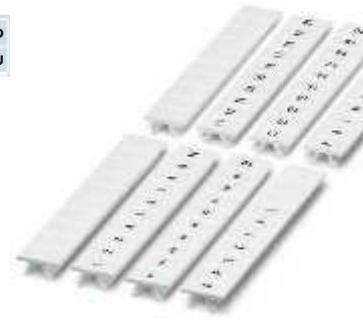
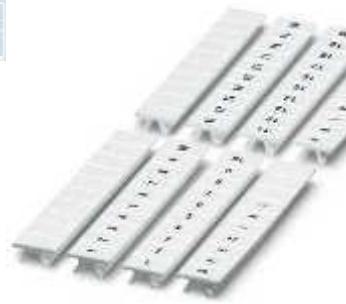
Zack marker strip terminal marking for a tall marker groove

- The ZB zack marker strip system is a labeling solution for modular terminal blocks and electronic modules with tall marker grooves
- Labeling service: Phoenix Contact can custom-label all zack marker strip markers in accordance with your requirements

Notes:

¹⁾ 10 identically marked strips make up one packing unit (PU).

²⁾ For ordering example, see page 359.

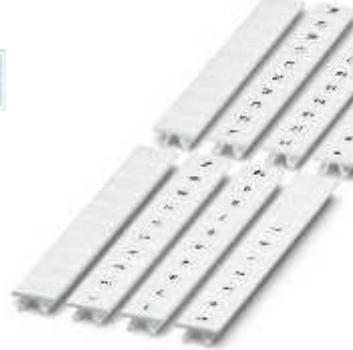
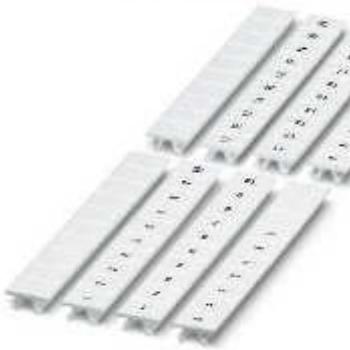
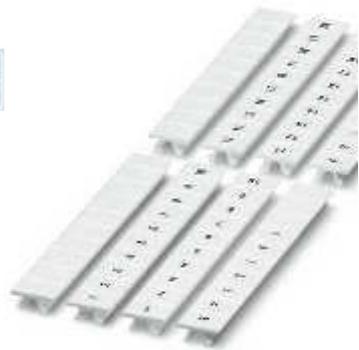


Markers for a terminal block width of 6.2 mm

Markers for a terminal block width of 6.6 mm

General data	
Can be printed with:	
Material	CMS-P1-PLOTTER
Inflammability class according to UL 94	PA
Temperature range	V2
Wipe resistance	-40 ... 100
Components	DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen

Technical data		Technical data					
Ordering data		Ordering data					
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Zack marker strip, 10-section, unprinted: pack contains enough to label 100 terminal blocks		ZB 6:UNBEDRUCKT	1051003	10	ZB 6,6:UNBEDRUCKT	1052332	10
as above, however, large batch, sufficient for 1000 terminal blocks	white white						
Zack marker strip, printed horizontally , 10-section, with consecutive numbers, e.g., 1-10, 11-20, etc. up to 91-100	white	ZB 6,LGS:FORTL.ZAHLEN	1051016	10	ZB 6,6,LGS:FORTL.ZAHLEN	1052345	10
Zack marker strip, printed horizontally , 10-section, with same numbers, e.g., 1/1/1, 2/2/2, etc. up to 100/100/100	white						
Zack marker strip, 10-section, printed horizontally: with L1, L2, L3, N, PE	white	ZB 6,LGS:GLEICHE ZAHLEN	1051032	10			
U, V, W, N, $\frac{1}{2}$	white white	ZB 6,LGS:L1-N,PE ZB 6,LGS:U-N	1051414 1051430	10 10			
Zack marker strip, printed vertically , 10-section, with consecutive numbers, e.g., 1-10, 11-20, etc. up to 91-100 ¹⁾	white	ZB 6,QR:FORTL.ZAHLEN	1051029	10			
Zack marker strip, special printing , 10-section, divisible, marking according to customer requirements, please specify the desired marking with order ²⁾	white	ZB 6 CUS	0824992	1	ZB 6,6 CUS	0824978	1
Accessories				Accessories			
Magazine , for CMS-P1-PLOTTER		CMS-P1-M/ZB	5144699	1	CMS-P1-M/ZB	5144699	1

PRINTED
FOR YOUPRINTED
FOR YOUPRINTED
FOR YOU

Markers for a terminal block width of 7.5 mm

Markers for a terminal block width of 7.62 mm

Markers for a terminal block width of 8.2 mm

Technical data			Technical data			Technical data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
ZB 7,5:UNBEDRUCKT	0803948	10	ZB 7,62:UNBEDRUCKT ZB 7,62/WH-100:UNBEDRUCKT	1054000 5060922	10 100	ZB 8:UNBEDRUCKT ZB 8/WH-100:UNBEDRUCKT	1052002 5060896	10 100
			ZB 7,62,LGS:FORTL.ZAHLEN	1054233	10	ZB 8,LGS:FORTL.ZAHLEN	1052015	10
						ZB 8,LGS:L1-N,PE	1052413	10
						ZB 8,QR:FORTL.ZAHLEN	1052028	10
ZB 7,5 CUS	0824994	1	ZB 7,62 CUS	0824997	1	ZB 8 CUS	0825011	1
Accessories			Accessories			Accessories		
CMS-P1-M/ZB	5144699	1	CMS-P1-M/ZB	5144699	1	CMS-P1-M/ZB	5144699	1

Marking and labeling - MARKING system

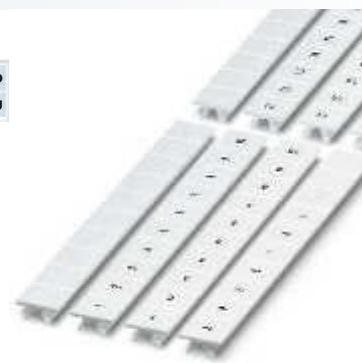
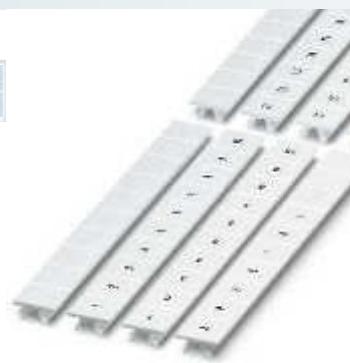
Terminal marking

Zack marker strip terminal marking for a tall marker groove

- The ZB zack marker strip system is a labeling solution for modular terminal blocks and electronic modules with tall marker grooves
- Labeling service: Phoenix Contact can custom-label all zack marker strip markers in accordance with your requirements

Notes:

¹⁾ 10 identically marked strips make up one packing unit (PU).



Markers for a terminal block width of 9 mm

Markers for a terminal block width of 10.2 mm

General data	
Can be printed with:	CMS-P1-PLOTTER
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 100
Wipe resistance	DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen
Components	

		Technical data		Technical data			
		Type	Order No.	Type	Order No.		
Description	Color						
Zack marker strip, 10-section, unprinted: pack contains enough to label 100 terminal blocks	white white	ZB 9:UNBEDRUCKT	0829127	10	ZB 10:UNBEDRUCKT ZB10:WH-100:UNBEDRUCKT	1053001 5060883	10 100
as above, however, large batch, sufficient for 1000 terminal blocks	white white						
5-section	white						
Flat Zack marker strip, 10-section, printed horizontally: with consecutive numbers, e.g., 1-10, 11-20, etc. up to 91-100 ¹⁾	white						
Zack marker strip, printed horizontally, 10-section, with same numbers, e.g., 1/1, 2/2, etc. up to 100/100 ¹⁾	white						
Zack marker strip, 10-section, printed horizontally: with L1, L2, L3, N, PE ¹⁾	white white white						
U, V, W, N, $\frac{1}{2}$ 5-section	white white						
Zack marker strip, printed vertically, 10-section, with consecutive numbers, e.g., 1-10, 11-20, etc. up to 91-100 ¹⁾	white						
Zack marker strip, special printing, 10-section, divisible, marking according to customer requirements, please specify the desired marking with order	white white	ZB 9 CUS	0829128	1	ZB 10 CUS	0824941	1
		Accessories		Accessories			
Magazine, for CMS-P1-PLOTTER		CMS-P1-M/ZB	5144699	1	CMS-P1-M/ZB	5144699	1



Markers for a terminal block width of 12 mm



Markers for a terminal block width of 13 mm



Markers for a terminal block width of 15 mm

Technical data			Technical data			Technical data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
ZB 12:UNPRINTED	0812120	10	ZB 13:UNBEDRUCKT	0829131	10	ZB 15:UNBEDRUCKT	0811972	10
ZB 12,LGS:L1-N,PE	0812146	10				ZB 15,LGS:L1-N,PE	0811998	10
ZB 12 CUS	0824942	1	ZB 13 CUS	0829132	1	ZB 15 CUS	0824945	1
Accessories			Accessories			Accessories		
CMS-P1-M/ZB	5144699	1	CMS-P1-M/ZB	5144699	1	CMS-P1-M/ZB	5144699	1

Marking and labeling - MARKING system

Terminal marking

Zack marker strip terminal marking for a tall marker groove

- The ZB zack marker strip system is a labeling solution for modular terminal blocks and electronic modules with tall marker grooves
- Labeling service: Phoenix Contact can custom-label all zack marker strip markers in accordance with your requirements

Notes:

¹⁾ 10 identically marked strips make up one packing unit (PU).

²⁾ For ordering example, see page 359.



Markers for a terminal block width of 16.3 mm

Markers for a terminal block width of 17 mm

General data	
Can be printed with:	CMS-P1-PLOTTER
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 100 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen
Components	

Technical data	
CMS-P1-PLOTTER	CMS-P1-PLOTTER
PA	PA
V2	V2
-40 ... 100	-40 ... 100
DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen	DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen

Description	Color
Zack marker strip, 5-section, unprinted: pack contains enough to label 50 terminal blocks	
4-part, for 40 terminals	white white
Zack marker strip, 5-section, printed horizontally: With L1, L2, L3, N, PE ¹⁾	
4-section	white white
Zack marker strip, special printing, 5-section, divisible, marking according to customer requirements, please specify the desired marking with order ²⁾	
4-section	white white

Ordering data					
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
ZB 16,3:UNPRINTED	0820222	10	ZB 17:UNBEDRUCKT	0829391	10
ZB 16,3 CUS					
	0824946	1	ZB 17 CUS	0829393	1

Magazine, for CMS-P1-PLOTTER

Accessories		
CMS-P1-M/ZB	5144699	1



Markers for a terminal block width of 18 mm



Markers for a terminal block width of 22 mm

Technical data

CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Technical data

CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
ZB 18:UNBEDRUCKT	0811833	10
ZB 18,LGS:L1-N,PE	0811846	10
ZB 18 CUS	0824947	1

Ordering data

Type	Order No.	Pcs. / Pkt.
ZB 22:UNBEDRUCKT	0811862	10
ZB 22,LGS:L1-N,PE	0811875	10
ZB 22 CUS	0824949	1

Accessories

CMS-P1-M/ZB	5144699	1
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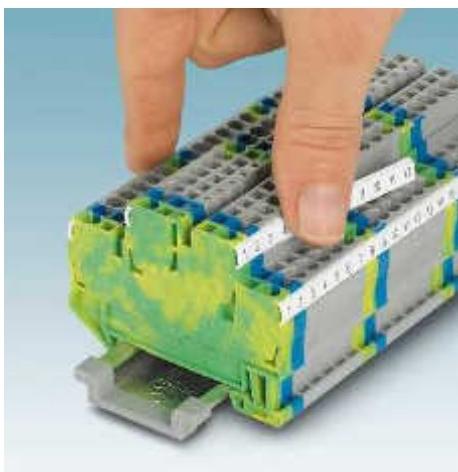
Accessories

CMS-P1-M/ZB	5144699	1
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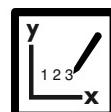
Marking and labeling - MARKING system

Terminal marking

Zack marker strip terminal marking for a flat marker groove



Can be printed with:



Plotter



Markers for a terminal block width of 3.5 mm

- The ZBF flat zack marker strip system is a labeling solution for modular terminal blocks and electronic modules with tall and flat marker grooves
- The multi-section marking strips are easy to fit and can be easily separated if required
- Different pitches are possible on request
- Unlabeled marking strips can be custom-labeled with a plotter or by hand
- Labeling service: Phoenix Contact can custom-label all zack marker strip markers in accordance with your requirements

Selection of labeling direction

- Please take care to select the correct labeling direction for printed products
- ① "Printed horizontally" labeling, text is the right way round for a horizontally arranged terminal strip
- ② "Printed vertically" labeling, text is the right way round for a vertically arranged terminal strip

Notes:

An overview of the markable terminal blocks that are available from Phoenix Contact can be found starting on page 112.

1) 10 identically marked strips make up one packing unit (PU).

2) For ordering example, see page 359.

General data

Can be printed with:

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

CMS-P1-PLOTTER

PA

V2

-40 ... 100

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Technical data

Description

Color

Zack marker strip, flat, 10-section, unprinted:
pack contains enough to label 100 terminal blocks

as above, however, large batch, sufficient for 1000
terminal blocks

white

white

ZBF 3,5:UNBEDRUCKT

0829392

Pcs. /
Pkt.

10

Zack marker strip, flat, printed horizontally,
ten sections with consecutive numbers, e.g., 1 - 10, 11 - 20, etc. up to
91 - 100, (ZBF 3,5 and ZBF 4, max. 2 digits¹⁾)

white

ZBF 3,5,LGS:FORTL.ZAHLEN

0801406

10

Zack marker strip, flat, printed horizontally, 10-section,
with even numbers, e.g., 2-20, 22-40, etc. up to 82-100, (ZBF 4
max. 2-digit¹⁾)

white

Zack marker strip, flat, printed horizontally, 10-section,
with odd numbers, e.g., 1-19, 21-39, etc. up to 81-99, (ZBF 4 max.
2-digit¹⁾)

white

Zack marker strip, flat, printed vertically, 10-section,
with consecutive numbers, e.g., 1-10, 11-20, etc. up to 91-100¹⁾

white

ZBF 3,5,QR:FORTL.ZAHLEN

0801407

10

Special marking zack marker strip, flat, 10-section,
separable, marking acc. to customer specifications,
(ZBF 3,5 and ZBF 4 max. 2 digits), please specify the required
marking when ordering²⁾

white

ZBF 3,5 CUS

0829394

1

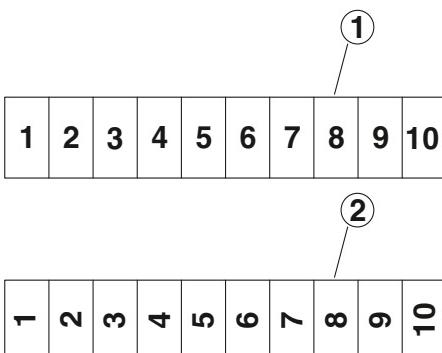
Accessories

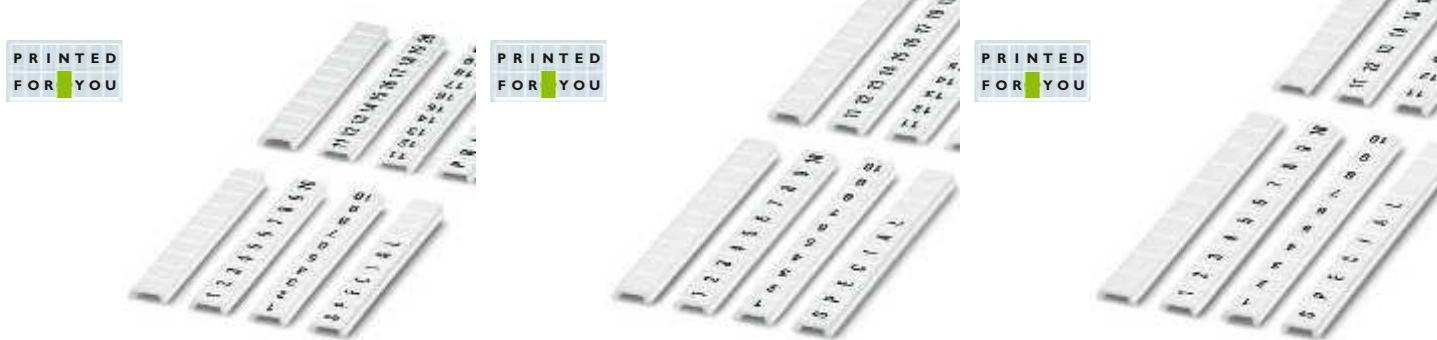
Magazine, for CMS-P1-PLOTTER

CMS-P1-M/ZBF

5144709

1





Markers for a terminal block width of 4.2 mm

Markers for a terminal block width of 5.2 mm

Markers for a terminal block width of 6.2 mm

Technical data			Technical data			Technical data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
ZBF 4:UNBEDRUCKT ZBF 4/WH-100:UNBEDRUCKT	0808587 0808613	10 100	ZBF 5:UNBEDRUCKT ZBF 5/WH-100:UNBEDRUCKT	0808642 0808668	10 100	ZBF 6:UNBEDRUCKT ZBF 6/WH-100:UNBEDRUCKT	0808710 0808736	10 100
ZBF 4,LGS:FORTL.ZAHLEN	0808626	10	ZBF 5,LGS:FORTL.ZAHLEN	0808671	10	ZBF 6,LGS:FORTL.ZAHLEN	0808749	10
ZBF 4,LGS:GERADE ZAHLEN	0810818	10	ZBF 5,LGS:GERADE ZAHLEN	0810821	10	ZBF 6,LGS:GERADE ZAHLEN	0810834	10
ZBF 4,LGS:UNGERADE ZAHLEN	0810850	10	ZBF 5,LGS:UNGERADE ZAHLEN	0810863	10	ZBF 6,LGS:UNGERADE ZAHLEN	0810876	10
ZBF 4,QR:FORTL.ZAHLEN	0808820	10	ZBF 5,QR:FORTL.ZAHLEN	0808697	10	ZBF 6,QR:FORTL.ZAHLEN	0808765	10
ZBF 4 CUS	0825023	1	ZBF 5 CUS	0825025	1	ZBF 6 CUS	0825027	1
Accessories			Accessories			Accessories		
CMS-P1-M/ZBF	5144709	1	CMS-P1-M/ZBF	5144709	1	CMS-P1-M/ZBF	5144709	1

Marking and labeling - MARKING system

Terminal marking

Zack marker strip terminal marking for a flat marker groove

- The ZBF flat zack marker strip system is a labeling solution for modular terminal blocks and electronic modules with tall and flat marker grooves
- Labeling service: Phoenix Contact can custom-label all zack marker strip markers in accordance with your requirements

Notes:

¹⁾ 10 identically marked strips make up one packing unit (PU).

²⁾ For ordering example, see page 359.



Markers for a terminal block width of 7.5 mm

Markers for a terminal block width of 8.2 mm

General data

Can be printed with:
Material
Inflammability class according to UL 94
Temperature range [°C]
Wipe resistance
Components

Technical data

CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Technical data

CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Ordering data

Description	Color
Zack marker strip, flat, 10-section, without color print	white
5-section	white
Zack marker strip, flat, printed horizontally, 10-section, with consecutive numbers, e.g., 1-10, 11-20, etc. up to 91-100 ¹⁾	white
Zack marker strip, flat, printed vertically, 10-section, with consecutive numbers, e.g., 1-10, 11-20, etc. up to 91-100 ¹⁾	white
Zack marker strip, flat, special printing, 10-section, divisible, marking according to customer requirements, please specify the desired marking with order ²⁾	white
5-section	white

Type	Order No.	Pcs. / Pkt.
ZBF 7,5:UNBEDRUCKT	0809942	10
ZBF 7,5,LGS:FORTL.ZAHLEN	0809955	10
ZBF 7,5,QR:FORTL.ZAHLEN	0809968	10
ZBF 7,5 CUS	0825028	1

Type	Order No.	Pcs. / Pkt.
ZBF 8:UNBEDRUCKT	0808781	10
ZBF 8,LGS:FORTL.ZAHLEN	0808804	10
ZBF 8 CUS	0825030	1

Accessories

Magazine, for CMS-P1-PLOTTER

CMS-P1-M/ZBF	5144709	1
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Accessories

CMS-P1-M/ZBF	5144709	1
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Markers for a terminal block width of 9 mm



Markers for a terminal block width of 10.2 mm



Markers for a terminal block width of 12 mm

Technical data			Technical data			Technical data		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
ZBF 9:UNBEDRUCKT	0829129	10	ZBF10:UNBEDRUCKT	0809997	10	ZBF 12:UNBEDRUCKT	0809735	10
ZBF 9 CUS	0829130	1	ZBF10,LGS:FORTL.ZAHLEN	0810009	10	ZBF 12 CUS	0825018	1
CMS-P1-M/ZBF	5144709	1	ZBF10,QR:FORTL.ZAHLEN	0810025	10	CMS-P1-M/ZBF	5144709	1
Accessories			Accessories			Accessories		

Marking and labeling - MARKING system

Terminal marking

Zack marker strip terminal marking for a flat marker groove

- The ZBF flat zack marker strip system is a labeling solution for modular terminal blocks and electronic modules with tall and flat marker grooves
- Labeling service: Phoenix Contact can custom-label all zack marker strip markers in accordance with your requirements

Notes:

1) For ordering example, see page 359.



Markers for a terminal block width of 13 mm

Markers for a terminal block width of 15 mm

General data

Can be printed with:
Material
Inflammability class according to UL 94
Temperature range [°C]
Wipe resistance
Components

Technical data

CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Technical data

CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Description	Color
Zack marker strip, flat, 5-section, without color print	white
Zack marker strip, special printing, 5-section, divisible, marking according to customer requirements, please specify the desired marking with order! ¹⁾	white

Ordering data

Type	Order No.	Pcs. / Pkt.
ZBF 13:UNBEDRUCKT	0829133	10
ZBF 13 CUS	0829134	1

Ordering data

Type	Order No.	Pcs. / Pkt.
ZBF 15:UNBEDRUCKT	0811202	10
ZBF 15 CUS	0825019	1

Magazine, for CMS-P1-PLOTTER

Accessories

CMS-P1-M/ZBF	5144709	1
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Accessories

CMS-P1-M/ZBF	5144709	1
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Markers for a terminal block width of 16.3 mm

Markers for a terminal block width of 17 mm

Markers for a terminal block width of 19.7 mm

Technical data			Technical data			Technical data		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
ZBF 16:UNPRINTED	0827464	10	ZBF 17:UNBEDRUCKT	0815020	10	ZBF 19,7:UNBEDRUCKT	0810627	10
ZBF 16 CUS	0827465	1	ZBF 17 CUS	0825020	1	ZBF 19,7 CUS	0825021	1
Accessories			Accessories			Accessories		
CMS-P1-M/ZBF	5144709	1	CMS-P1-M/ZBF	5144709	1	CMS-P1-M/ZBF	5144709	1

Marking and labeling - MARKING system

Terminal marking

UniCard terminal marking for a tall marker groove



Can be printed with:



Thermal transfer for sheets
and cards



UV LED technology



102 markers for a terminal block width of
3.5 mm

- The UCT-TM... UniCard labeling range includes markers for products with tall marker grooves
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and precisely using the THERMOMARK CARD and BLUEMARK CLED
- The multi-section marking strips are easy to fit and can be easily separated if required
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

An overview of the markable terminal blocks that are available from Phoenix Contact can be found starting on page 112.

¹⁾ For ordering example, see page 359.

General data

Can be printed with:

Number of individual labels
Number of individual labels per strip
Material
Inflammability class according to UL 94
Temperature range
Wipe resistance
Components

THERMOMARK CARD PLUS • THERMOMARK CARD •
BLUEMARK CLED • BLUEMARK LED

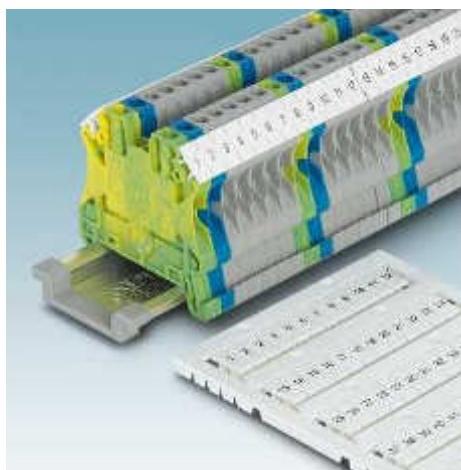
102
17
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Technical data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for labeling terminal blocks with a marker groove				
	white	UCT-TM 3,5	0829484	10
	red	UCT-TM 3,5 RD	0829505	10
	orange	UCT-TM 3,5 OG	0829506	10
	yellow	UCT-TM 3,5 YE	0829485	10
	violet	UCT-TM 3,5 VT	0829507	10
	blue	UCT-TM 3,5 BU	0829508	10
	green	UCT-TM 3,5 GN	0829509	10
UniCard, for labeling terminal blocks with a marker groove, labeled acc. to customer specifications ¹⁾				
	white	UCT-TM 3,5 CUS	0829581	1
	red	UCT-TM 3,5 RD CUS	0829582	1
	orange	UCT-TM 3,5 OG CUS	0829583	1
	yellow	UCT-TM 3,5 YE CUS	0829584	1
	violet	UCT-TM 3,5 VT CUS	0829585	1
	blue	UCT-TM 3,5 BU CUS	0829586	1
	green	UCT-TM 3,5 GN CUS	0829587	1

Accessories

Magazine, for THERMOMARK CARD ... for accommodating: UCT-TM ..., UCT1-TM ..., UCT5-TM ..., UCT-EM (5X10), UCT-EM (6X10)	THERMOMARK CARD-UCT-MAG1	5146480	1
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84 markers for a terminal block width of
4.2 mm

72 markers for a terminal block width of
5.2 mm

60 markers for a terminal block width of
6.2 mm

Technical data			Technical data			Technical data		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UCT-TM 4	0828732	10	UCT-TM 5	0828734	10	UCT-TM 6	0828736	10
UCT-TM 4 RD	0829149	10	UCT-TM 5 RD	0829154	10	UCT-TM 6 RD	0829159	10
UCT-TM 4 OG	0829150	10	UCT-TM 5 OG	0829155	10	UCT-TM 6 OG	0829160	10
UCT-TM 4 YE	0828733	10	UCT-TM 5 YE	0828735	10	UCT-TM 6 YE	0828737	10
UCT-TM 4 VT	0829151	10	UCT-TM 5 VT	0829156	10	UCT-TM 6 VT	0829161	10
UCT-TM 4 BU	0829152	10	UCT-TM 5 BU	0829157	10	UCT-TM 6 BU	0829162	10
UCT-TM 4 GN	0829153	10	UCT-TM 5 GN	0829158	10	UCT-TM 6 GN	0829163	10
UCT-TM 4 CUS	0829588	1	UCT-TM 5 CUS	0829595	1	UCT-TM 6 CUS	0829602	1
UCT-TM 4 RD CUS	0829589	1	UCT-TM 5 RD CUS	0829596	1	UCT-TM 6 RD CUS	0829603	1
UCT-TM 4 OG CUS	0829590	1	UCT-TM 5 OG CUS	0829597	1	UCT-TM 6 OG CUS	0829604	1
UCT-TM 4 YE CUS	0829591	1	UCT-TM 5 YE CUS	0829598	1	UCT-TM 6 YE CUS	0829605	1
UCT-TM 4 VT CUS	0829592	1	UCT-TM 5 VT CUS	0829599	1	UCT-TM 6 VT CUS	0829606	1
UCT-TM 4 BU CUS	0829593	1	UCT-TM 5 BU CUS	0829600	1	UCT-TM 6 BU CUS	0829607	1
UCT-TM 4 GN CUS	0829594	1	UCT-TM 5 GN CUS	0829601	1	UCT-TM 6 GN CUS	0829608	1
Accessories			Accessories			Accessories		
THERMOMARK CARD-UCT-MAG1	5146480	1	THERMOMARK CARD-UCT-MAG1	5146480	1	THERMOMARK CARD-UCT-MAG1	5146480	1

Marking and labeling - MARKING system

Terminal marking

UniCard terminal marking for a tall marker groove

- The UCT-TM... UniCard labeling range includes markers for products with tall marker grooves
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

1) For ordering example, see page 359.



48 markers for a terminal block width of
7.62 mm



42 markers for a terminal block width of
8.2 mm

General data

Can be printed with:

Number of individual labels

Number of individual labels per strip

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

THERMOMARK CARD PLUS • THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED

48

8

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

THERMOMARK CARD PLUS • THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED

42

7

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for labeling terminal blocks with a marker groove				
	white	UCT-TM 7,62	0828738	10
	red	UCT-TM 7,62 RD	0829510	10
	orange	UCT-TM 7,62 OG	0829511	10
	yellow	UCT-TM 7,62 YE	0828739	10
	violet	UCT-TM 7,62 VT	0829512	10
	blue	UCT-TM 7,62 BU	0829513	10
	green	UCT-TM 7,62 GN	0829514	10
UniCard, for labeling terminal blocks with a marker groove, labeled acc. to customer specifications¹⁾				
	white	UCT-TM 7,62 CUS	0829609	1
	red	UCT-TM 7,62 RD CUS	0829610	1
	orange	UCT-TM 7,62 OG CUS	0829611	1
	yellow	UCT-TM 7,62 YE CUS	0829612	1
	violet	UCT-TM 7,62 VT CUS	0829613	1
	blue	UCT-TM 7,62 BU CUS	0829614	1
	green	UCT-TM 7,62 GN CUS	0829615	1

Magazine, for THERMOMARK CARD ...				
for accommodating: UCT-TM ..., UCT1-TM ..., UCT5-TM ..., UCT-EM (5X10), UCT-EM (6X10)				

Ordering data				
Type	Order No.	Pcs. / Pkt.	Type	Order No.
UCT-TM 7,62	0828738	10	UCT-TM 8	0828740
UCT-TM 7,62 RD	0829510	10	UCT-TM 8 RD	0829164
UCT-TM 7,62 OG	0829511	10	UCT-TM 8 OG	0829165
UCT-TM 7,62 YE	0828739	10	UCT-TM 8 YE	0828741
UCT-TM 7,62 VT	0829512	10	UCT-TM 8 VT	0829166
UCT-TM 7,62 BU	0829513	10	UCT-TM 8 BU	0829167
UCT-TM 7,62 GN	0829514	10	UCT-TM 8 GN	0829168
UCT-TM 7,62 CUS	0829609	1	UCT-TM 8 CUS	0829616
UCT-TM 7,62 RD CUS	0829610	1	UCT-TM 8 RD CUS	0829617
UCT-TM 7,62 OG CUS	0829611	1	UCT-TM 8 OG CUS	0829618
UCT-TM 7,62 YE CUS	0829612	1	UCT-TM 8 YE CUS	0829619
UCT-TM 7,62 VT CUS	0829613	1	UCT-TM 8 VT CUS	0829620
UCT-TM 7,62 BU CUS	0829614	1	UCT-TM 8 BU CUS	0829621
UCT-TM 7,62 GN CUS	0829615	1	UCT-TM 8 GN CUS	0829622

Accessories				
THERMOMARK CARD-UCT-MAG1	5146480	1	THERMOMARK CARD-UCT-MAG1	5146480

Ordering data				
Type	Order No.	Pcs. / Pkt.	Type	Order No.
UCT-TM 8	0828740	10	UCT-TM 8 RD	0829164
UCT-TM 8 RD	0829164	10	UCT-TM 8 OG	0829165
UCT-TM 8 OG	0829165	10	UCT-TM 8 YE	0828741
UCT-TM 8 YE	0828741	10	UCT-TM 8 VT	0829166
UCT-TM 8 VT	0829166	10	UCT-TM 8 BU	0829167
UCT-TM 8 BU	0829167	10	UCT-TM 8 GN	0829168
UCT-TM 8 GN	0829168	10	UCT-TM 8 CUS	0829616
UCT-TM 8 RD CUS	0829617	1	UCT-TM 8 OG CUS	0829618
UCT-TM 8 OG CUS	0829618	1	UCT-TM 8 YE CUS	0829619
UCT-TM 8 YE CUS	0829619	1	UCT-TM 8 VT CUS	0829620
UCT-TM 8 VT CUS	0829620	1	UCT-TM 8 BU CUS	0829621
UCT-TM 8 BU CUS	0829621	1	UCT-TM 8 GN CUS	0829622
UCT-TM 8 GN CUS	0829622	1		

Accessories				
THERMOMARK CARD-UCT-MAG1	5146480	1	THERMOMARK CARD-UCT-MAG1	5146480

36 markers for a terminal block width of
10.2 mm

30 markers for a terminal block width of 12 mm

18 markers for a terminal block width of 16 mm

Technical data			Technical data			Technical data		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UCT-TM 10	0829142	10	UCT-TM 12	0829144	10	UCT-TM 16	0829146	10
UCT-TM 10 RD	0829169	10	UCT-TM 12 RD	0829174	10	UCT-TM 16 RD	0829179	10
UCT-TM 10 OG	0829170	10	UCT-TM 12 OG	0829175	10	UCT-TM 16 OG	0829180	10
UCT-TM 10 YE	0829143	10	UCT-TM 12 YE	0829145	10	UCT-TM 16 YE	0829147	10
UCT-TM 10 VT	0829171	10	UCT-TM 12 VT	0829176	10	UCT-TM 16 VT	0829181	10
UCT-TM 10 BU	0829172	10	UCT-TM 12 BU	0829177	10	UCT-TM 16 BU	0829182	10
UCT-TM 10 GN	0829173	10	UCT-TM 12 GN	0829178	10	UCT-TM 16 GN	0829183	10
UCT-TM 10 CUS	0829623	1	UCT-TM 12 CUS	0829630	1	UCT-TM 16 CUS	0829637	1
UCT-TM 10 RD CUS	0829624	1	UCT-TM 12 RD CUS	0829631	1	UCT-TM 16 RD CUS	0829638	1
UCT-TM 10 OG CUS	0829625	1	UCT-TM 12 OG CUS	0829632	1	UCT-TM 16 OG CUS	0829639	1
UCT-TM 10 YE CUS	0829626	1	UCT-TM 12 YE CUS	0829633	1	UCT-TM 16 YE CUS	0829640	1
UCT-TM 10 VT CUS	0829627	1	UCT-TM 12 VT CUS	0829634	1	UCT-TM 16 VT CUS	0829641	1
UCT-TM 10 BU CUS	0829628	1	UCT-TM 12 BU CUS	0829635	1	UCT-TM 16 BU CUS	0829642	1
UCT-TM 10 GN CUS	0829629	1	UCT-TM 12 GN CUS	0829636	1	UCT-TM 16 GN CUS	0829643	1
Accessories			Accessories			Accessories		
THERMOMARK CARD-UCT-MAG1	5146480	1	THERMOMARK CARD-UCT-MAG1	5146480	1	THERMOMARK CARD-UCT-MAG1	5146480	1

Marking and labeling - MARKING system

Terminal marking

UniCard terminal marking for a flat marker groove



Can be printed with:



Thermal transfer for sheets and cards



UV LED technology



108 markers for a terminal block width of 3.5 mm

- The UCT-TMF ... UniCard labeling range includes markers for products with flat marker grooves
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and precisely using the THERMOMARK CARD and BLUEMARK CLED
- The multi-section marking strips are easy to fit and can be easily separated if required
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

An overview of the markable terminal blocks that are available from Phoenix Contact can be found starting on page 112.

¹⁾ For ordering example, see page 359.

General data

Can be printed with:

Number of individual labels

Number of individual labels per strip

Material

Inflammability class according to UL 94

Temperature range

Wipe resistance

THERMOMARK CARD PLUS • THERMOMARK CARD •

BLUEMARK CLED • BLUEMARK LED

108

18

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Components

[°C]

Technical data

Description

Color

Type

Order No.

Pcs. / Pkt.

UniCard, for labeling terminal blocks with a flat marker groove

white	UCT-TMF 3,5	0829486	10
red	UCT-TMF 3,5 RD	0829515	10
orange	UCT-TMF 3,5 OG	0829516	10
yellow	UCT-TMF 3,5 YE	0829487	10
violet	UCT-TMF 3,5 VT	0829517	10
blue	UCT-TMF 3,5 BU	0829518	10
green	UCT-TMF 3,5 GN	0829519	10

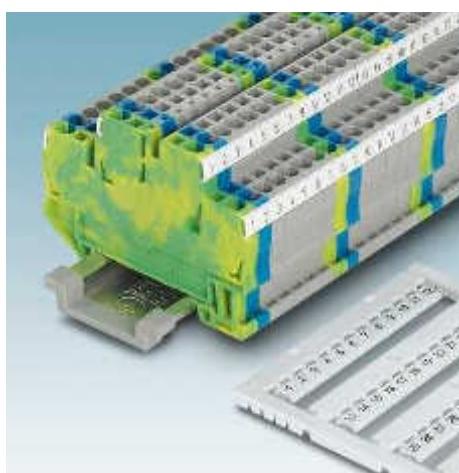
UniCard, for labeling terminal blocks with a flat marker groove, labeled acc. to customer specifications¹⁾

white	UCT-TMF 3,5 CUS	0829644	1
red	UCT-TMF 3,5 RD CUS	0829645	1
orange	UCT-TMF 3,5 OG CUS	0829646	1
yellow	UCT-TMF 3,5 YE CUS	0829647	1
violet	UCT-TMF 3,5 VT CUS	0829648	1
blue	UCT-TMF 3,5 BU CUS	0829649	1
green	UCT-TMF 3,5 GN CUS	0829650	1

Accessories

Magazine, for THERMOMARK CARD ..., for accommodating: UCT-TMF ...

THERMOMARK CARD-UCT-MAG2	5146563	1
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90 markers for a terminal block width of
4.2 mm



72 markers for a terminal block width of
5.2 mm



60 markers for a terminal block width of
6.2 mm

Technical data			Technical data			Technical data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD PLUS • THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED			THERMOMARK CARD PLUS • THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED			THERMOMARK CARD PLUS • THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED		
90			72			60		
15			12			10		
PC			PC			PC		
V0			V0			V0		
-40 ... 120			-40 ... 120			-40 ... 120		
DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
free from silicone and halogen			free from silicone and halogen			free from silicone and halogen		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UCT-TMF 4	0828742	10	UCT-TMF 5	0828744	10	UCT-TMF 6	0828746	10
UCT-TMF 4 RD	0829184	10	UCT-TMF 5 RD	0829189	10	UCT-TMF 6 RD	0829194	10
UCT-TMF 4 OG	0829185	10	UCT-TMF 5 OG	0829190	10	UCT-TMF 6 OG	0829195	10
UCT-TMF 4 YE	0828743	10	UCT-TMF 5 YE	0828745	10	UCT-TMF 6 YE	0828747	10
UCT-TMF 4 VT	0829186	10	UCT-TMF 5 VT	0829191	10	UCT-TMF 6 VT	0829196	10
UCT-TMF 4 BU	0829187	10	UCT-TMF 5 BU	0829192	10	UCT-TMF 6 BU	0829197	10
UCT-TMF 4 GN	0829188	10	UCT-TMF 5 GN	0829193	10	UCT-TMF 6 GN	0829198	10
UCT-TMF 4 CUS	0829651	1	UCT-TMF 5 CUS	0829658	1	UCT-TMF 6 CUS	0829665	1
UCT-TMF 4 RD CUS	0829652	1	UCT-TMF 5 RD CUS	0829659	1	UCT-TMF 6 RD CUS	0829666	1
UCT-TMF 4 OG CUS	0829653	1	UCT-TMF 5 OG CUS	0829660	1	UCT-TMF 6 OG CUS	0829667	1
UCT-TMF 4 YE CUS	0829654	1	UCT-TMF 5 YE CUS	0829661	1	UCT-TMF 6 YE CUS	0829668	1
UCT-TMF 4 VT CUS	0829655	1	UCT-TMF 5 VT CUS	0829662	1	UCT-TMF 6 VT CUS	0829669	1
UCT-TMF 4 BU CUS	0829656	1	UCT-TMF 5 BU CUS	0829663	1	UCT-TMF 6 BU CUS	0829670	1
UCT-TMF 4 GN CUS	0829657	1	UCT-TMF 5 GN CUS	0829664	1	UCT-TMF 6 GN CUS	0829671	1
Accessories			Accessories			Accessories		
THERMOMARK CARD-UCT-MAG2	5146563	1	THERMOMARK CARD-UCT-MAG2	5146563	1	THERMOMARK CARD-UCT-MAG2	5146563	1

Marking and labeling - MARKING system

Terminal marking

UniCard terminal marking for a flat marker groove

- The UCT-TMF ... UniCard labeling range includes markers for products with flat marker grooves
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Can be printed with:



Thermal transfer for sheets and cards



UV LED technology



42 markers for a terminal block width of
8.2 mm

Notes:

1) For ordering example, see page 359.

General data

Can be printed with:

Number of individual labels	
Number of individual labels per strip	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

THERMOMARK CARD PLUS • THERMOMARK CARD •
BLUEMARK CLED • BLUEMARK LED

42
7
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Technical data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for labeling terminal blocks with a flat marker groove				
	white	UCT-TMF 8	0828748	10
	red	UCT-TMF 8 RD	0829199	10
	orange	UCT-TMF 8 OG	0829200	10
	yellow	UCT-TMF 8 YE	0828749	10
	violet	UCT-TMF 8 VT	0829201	10
	blue	UCT-TMF 8 BU	0829202	10
	green	UCT-TMF 8 GN	0829203	10
UniCard, for labeling terminal blocks with a flat marker groove, labeled acc. to customer specifications ¹⁾				
	white	UCT-TMF 8 CUS	0829672	1
	red	UCT-TMF 8 RD CUS	0829673	1
	orange	UCT-TMF 8 OG CUS	0829674	1
	yellow	UCT-TMF 8 YE CUS	0829675	1
	violet	UCT-TMF 8 VT CUS	0829676	1
	blue	UCT-TMF 8 BU CUS	0829677	1
	green	UCT-TMF 8 GN CUS	0829678	1

Accessories

Magazine, for THERMOMARK CARD ..., for accommodating: UCT-TMF ...			
	THERMOMARK CARD-UCT-MAG2	5146563	1



36 markers for a terminal block width of
10.2 mm



30 markers for a terminal block width of 12 mm



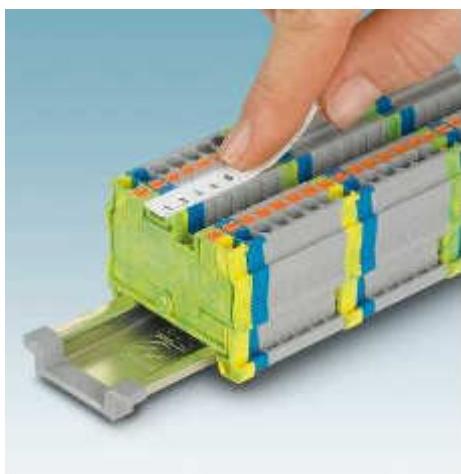
24 markers for a terminal block width of 16 mm

Technical data			Technical data			Technical data		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UCT-TMF 10	0829204	10	UCT-TMF 12	0829214	10	UCT-TMF 16	0829218	10
UCT-TMF 10 RD	0829205	10	UCT-TMF 12 RD	0829212	10	UCT-TMF 16 RD	0829219	10
UCT-TMF 10 OG	0829206	10	UCT-TMF 12 OG	0829213	10	UCT-TMF 16 OG	0829220	10
UCT-TMF 10 YE	0829207	10	UCT-TMF 12 YE	0829211	10	UCT-TMF 16 YE	0829221	10
UCT-TMF 10 VT	0829208	10	UCT-TMF 12 VT	0829215	10	UCT-TMF 16 BU	0829223	10
UCT-TMF 10 BU	0829209	10	UCT-TMF 12 BU	0829216	10	UCT-TMF 16 GN	0829224	10
UCT-TMF 10 GN	0829210	10	UCT-TMF 12 GN	0829217	10			
UCT-TMF 10 CUS	0829679	1	UCT-TMF 12 CUS	0829686	1	UCT-TMF 16 CUS	0829693	1
UCT-TMF 10 RD CUS	0829680	1	UCT-TMF 12 RD CUS	0829687	1	UCT-TMF 16 RD CUS	0829694	1
UCT-TMF 10 OG CUS	0829681	1	UCT-TMF 12 OG CUS	0829688	1	UCT-TMF 16 OG CUS	0829695	1
UCT-TMF 10 YE CUS	0829682	1	UCT-TMF 12 YE CUS	0829689	1	UCT-TMF 16 YE CUS	0829696	1
UCT-TMF 10 VT CUS	0829683	1	UCT-TMF 12 VT CUS	0829690	1	UCT-TMF 16 VT CUS	0829697	1
UCT-TMF 10 BU CUS	0829684	1	UCT-TMF 12 BU CUS	0829691	1	UCT-TMF 16 BU CUS	0829698	1
UCT-TMF 10 GN CUS	0829685	1	UCT-TMF 12 GN CUS	0829692	1	UCT-TMF 16 GN CUS	0829699	1
Accessories			Accessories			Accessories		
THERMOMARK CARD-UCT-MAG2	5146563	1	THERMOMARK CARD-UCT-MAG2	5146563	1	THERMOMARK CARD-UCT-MAG2	5146563	1

Marking and labeling - MARKING system

Terminal marking

UniSheet terminal marking for a universal marker groove



Can be printed with:



Thermal transfer for sheets
and cards



13 strips with a strip width of 104 mm

- The US-TM 100 UniSheet markers are suitable for products with universal marker grooves
- The markers, which are supplied as uniform cards, can be printed onto quickly, easily, and precisely using the THERMOMARK CARD
- The perforated marking strips are easy to separate and can be easily fitted
- The cards provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniSheet markers in accordance with your requirements

Notes:

An overview of the markable terminal blocks that are available from Phoenix Contact can be found starting on page 112.

¹⁾ For ordering example, see page 359.

General data

Can be printed with:

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

THERMOMARK CARD PLUS • THERMOMARK CARD

PVC

V0

-30 ... 80

DIN EN 61010-1 (VDE 0411-1)

Silicone-free

Technical data

Description

Color

UniSheet, for marking push-in terminal blocks with a special center groove

white

UniSheet, for labeling push-in terminal blocks with a special center groove, labeled acc. to customer specifications¹⁾

white

Ordering data

Type

Order No.

Pcs. / Pkt.

US-TM 100

0829255

10

US-TM 100 CUS

0829948

1

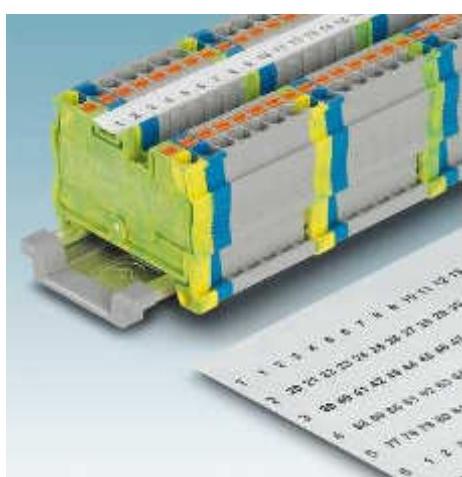
Accessories

Magazine, for THERMOMARK CARD..., for accommodating all US-... materials

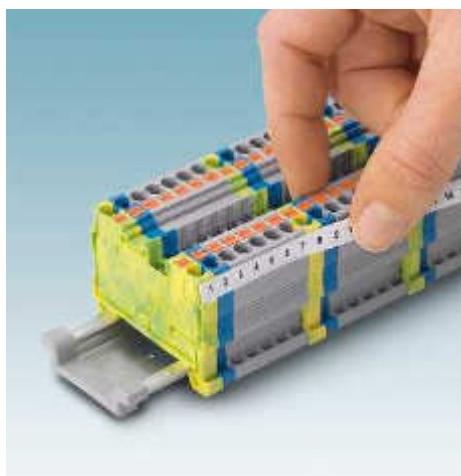
THERMOMARK CARD-US-MAG1

5146451

1



UniSheet terminal marking for a flat marker groove



Can be printed with:



Thermal transfer for sheets
and cards



20 strips with a strip width of 104 mm

- The US-TMF 100 UniSheet markers are suitable for products with a flat marker groove
- The markers, which are supplied as uniform cards, can be printed onto quickly, easily, and precisely using the THERMOMARK CARD
- The perforated marking strips are easy to separate and can be easily fitted
- The cards provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniSheet markers in accordance with your requirements

Notes:

An overview of the markable terminal blocks that are available from Phoenix Contact can be found starting on page 112.

¹⁾ For ordering example, see page 359.

General data

Can be printed with:

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

THERMOMARK CARD PLUS • THERMOMARK CARD

PVC

V0

-30 ... 80

DIN EN 61010-1 (VDE 0411-1)

Silicone-free

Technical data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniSheet, for labeling terminal blocks with a tall, flat or universal marker groove	white	US-TMF 100	0829260	10
UniSheet, for labeling terminal blocks with a flat marker groove, labeled acc. to customer specifications ¹⁾	white	US-TMF 100 CUS	0829949	1

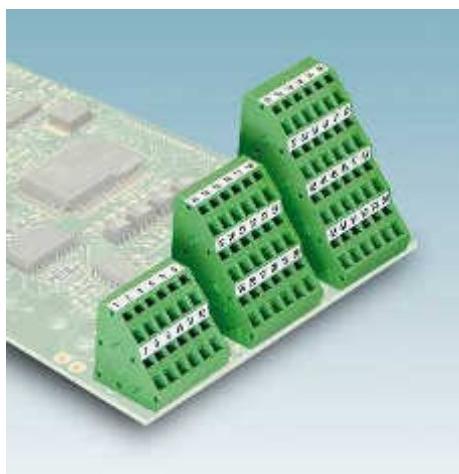
Ordering data

Terminal marking

UniSheet marker strips, self-adhesive, for terminal blocks without marker groove

Can be printed with:

N



Thermal transfer for sheets and cards



26 strips, 104 mm wide, 2.8 mm high

- The US-TML labeling range includes self-adhesive marker strips for products without a marker groove
- The markers, which are supplied as uniform cards, can be printed onto quickly, easily, and precisely using the THERMOMARK CARD
- The perforated marking strips are easy to separate and can be easily fitted
- The cards provide space for including function texts

General data

Can be printed with:
Number of individual labels
Number of individual labels per strip
Material
Temperature range
Wipe resistance
Components

THERMOMARK CARD PLUS • THERMOMARK CARD
26
1
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Technical data

Description

Color

Type

Order No.

Pcs. / Pkt.

UniSheet,unprinted, for labeling terminal blocks without marker groove	white	US-TML (104X2,8)	0830767	10
Lettering field size: 104 x 2.8 mm	white			
Lettering field size: 104 x 3.8 mm	white			
Lettering field size: 104 x 5 mm	white			
Lettering field size: 104 x 10 mm	white			

Accessories

Magazine, for THERMOMARK CARD..., for accommodating all US-... materials

THERMOMARK CARD-US-MAG1 5146451 1

N**N****N**

22 strips, 104 mm wide, 3.8 mm high



19 strips, 104 mm wide, 5 mm high



11 strips, 104 mm wide, 10 mm high

Technical data			Technical data			Technical data		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
US-TML (104X3,8)	0830768	10	US-TML (104X5)	0830769	10	US-TML (104X10)	0830770	10
THERMOMARK CARD-US-MAG1	5146451	1	THERMOMARK CARD-US-MAG1	5146451	1	THERMOMARK CARD-US-MAG1	5146451	1
Accessories			Accessories			Accessories		
THERMOMARK CARD-US-MAG1	5146451	1	THERMOMARK CARD-US-MAG1	5146451	1	THERMOMARK CARD-US-MAG1	5146451	1

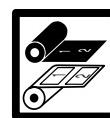
Marking and labeling - MARKING system

Terminal marking

Marker strips for terminal marking, for tall and flat marker grooves



Can be printed with:



Thermal transfer for rolls

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Markers for a terminal block width of 4.2 mm

- The TMT labeling range includes markers for all products with tall and flat marker grooves
- The markers that are supplied on rolls can be quickly and cost-effectively labeled using THERMOMARK printers
- The perforated marking strips are easy to separate and can be easily fitted using the tool supplied
- Labeling service: Phoenix Contact can custom-label all TMT markers in accordance with your requirements

Notes:

An overview of the markable terminal blocks that are available from Phoenix Contact can be found starting on page 112.

¹⁾ For ordering example, see page 359.

General data

Can be printed with:

Number of individual labels
Number of individual labels per strip
Material
Temperature range
Wipe resistance
Components

[°C]

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
24000
24
Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Markers, perforated, unprinted, for all terminal blocks with a tall, flat or universal marker groove, 1 roll = 1000 strips, strip height: 6.4 mm, incl. TMT TOOL	white red blue yellow green orange	TMT 4 R TMT 4 R RD TMT 4 R BU TMT 4 R YE TMT 4 R GN TMT 4 R OG	0816375 0816362 0816333 0816388 0816346 0816359	1 1 1 1 1 1
Markers, perforated, labeled acc. to customer specifications, for all terminal blocks with a tall, flat or universal marker groove ¹⁾	white red blue yellow green orange	TMT 4 R CUS TMT 4 R RD CUS TMT 4 R BU CUS TMT 4 R YE CUS TMT 4 R GN CUS TMT 4 R OG CUS	0824476 0824480 0824477 0824481 0824478 0824479	1 1 1 1 1 1

Accessories

Locking tool to snap into the TMT... materials

orange	TMT TOOL	0816650	1
--------	----------	---------	---



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Marker for a terminal block width of 5.2 mm

PRINTED
FOR YOU

Marker for a terminal block width of 6.2 mm

PRINTED
FOR YOU

Marker for a terminal block width of 8.2 mm

Technical data			Technical data			Technical data		
THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1			THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1			THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1		
19000			16000			12000		
19			16			12		
Polyester			Polyester			Polyester		
-40 ... 120			-40 ... 120			-40 ... 120		
DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
free from silicone and halogen			free from silicone and halogen			free from silicone and halogen		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
TMT 5 R	0816430	1	TMT 6 R	0816498	1	TMT 8 R	0816553	1
TMT 5 R RD	0816427	1	TMT 6 R RD	0816485	1	TMT 8 R RD	0816540	1
TMT 5 R BU	0816391	1	TMT 6 R BU	0816456	1	TMT 8 R BU	0816511	1
TMT 5 R YE	0816443	1	TMT 6 R YE	0816508	1	TMT 8 R YE	0816566	1
TMT 5 R GN	0816401	1	TMT 6 R GN	0816469	1	TMT 8 R GN	0816524	1
TMT 5 R OG	0816414	1	TMT 6 R OG	0816472	1	TMT 8 R OG	0816537	1
TMT 5 R CUS	0824482	1	TMT 6 R CUS	0824488	1	TMT 8 R CUS	0824494	1
TMT 5 R RD CUS	0824486	1	TMT 6 R RD CUS	0824492	1	TMT 8 R RD CUS	0824498	1
TMT 5 R BU CUS	0824483	1	TMT 6 R BU CUS	0824489	1	TMT 8 R BU CUS	0824495	1
TMT 5 R YE CUS	0824487	1	TMT 6 R YE CUS	0824493	1	TMT 8 R YE CUS	0824499	1
TMT 5 R GN CUS	0824484	1	TMT 6 R GN CUS	0824490	1	TMT 8 R GN CUS	0824496	1
TMT 5 R OG CUS	0824485	1	TMT 6 R OG CUS	0824491	1	TMT 8 R OG CUS	0824497	1
Accessories			Accessories			Accessories		
TMT TOOL	0816650	1	TMT TOOL	0816650	1	TMT TOOL	0816650	1

Marking and labeling - MARKING system

Terminal marking

Marker strips for terminal marking, for tall and flat marker grooves



Can be printed with:



Thermal transfer for rolls



Markers for a terminal block width of 10.2 mm

- The TMT labeling range includes markers for all products with tall and flat marker grooves
- Labeling service: Phoenix Contact can custom-label all TMT markers in accordance with your requirements

Notes:

1) For ordering example, see page 359.

General data

Can be printed with:

Number of individual labels	
Number of individual labels per strip	
Material	
Temperature range	[°C]
Wipe resistance	-40 ... 120
Components	DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
10000
10
Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Markers, perforated, unprinted, for all terminal blocks with a tall, flat or universal marker groove, 1 roll = 1000 strips, strip height: 6.4 mm, incl. TMT TOOL	white	TMT 10 R	0816210	1
Markers, perforated, labeled acc. to customer specifications, for all terminal blocks with a tall, flat or universal marker groove ¹⁾	white	TMT 10 R CUS	0824500	1
Marker, for terminal blocks, unperforated, unprinted, strip width: 101.5 mm, 1 roll = 1000 strips, incl. TMT TOOL	white red blue yellow green orange			
Marker, for terminal blocks, unperforated, labeled as per customer specifications, strip width: 101.5 mm ¹⁾	white red blue yellow green orange			

Accessories

Locking tool to snap into the TMT... materials

orange

TMT TOOL

0816650

1

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Markers with a strip width of 101.5 mm

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMO-MARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1

1000

1

Polyester

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

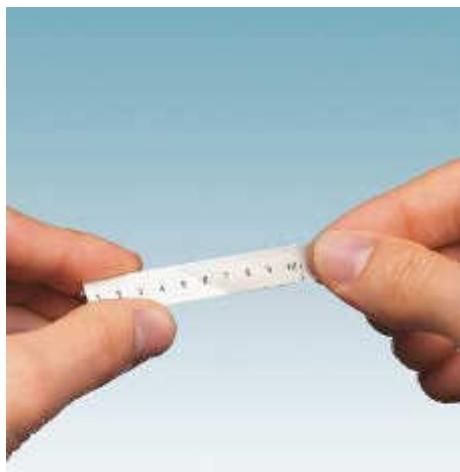
Ordering data

Type	Order No.	Pcs. / Pkt.
TMT 100 R	0816605	1
TMT 100 R RD	0816595	1
TMT 100 R BU	0816223	1
TMT 100 R YE	0816618	1
TMT 100 R GN	0816579	1
TMT 100 R OG	0816582	1
TMT 100 R CUS	0824501	1
TMT 100 R RD CUS	0824505	1
TMT 100 R BU CUS	0824502	1
TMT 100 R YE CUS	0824506	1
TMT 100 R GN CUS	0824503	1
TMT 100 R OG CUS	0824504	1
Accessories		
TMT TOOL	0816650	1

Marking and labeling - MARKING system

Terminal marking

Self-adhesive marker strips



Can be printed with:



Thermal transfer for rolls



Marker with strip width of 101.5 mm

- The products in the TML labeling range allow subsequent labeling of zack marker strip materials and flat zack marker strip materials using a marking foil
- The markers that are supplied on rolls can be quickly and cost-effectively labeled using THERMOMARK printers
- Labeling service: Phoenix Contact can custom-label all TML markers in accordance with your requirements

Notes:

An overview of the markable terminal blocks that are available from Phoenix Contact can be found starting on page 112.

¹⁾ For ordering example, see page 359.

General data

Can be printed with:

Number of individual labels per strip

Material

Temperature range

Wipe resistance

Components

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1

1

Polyester

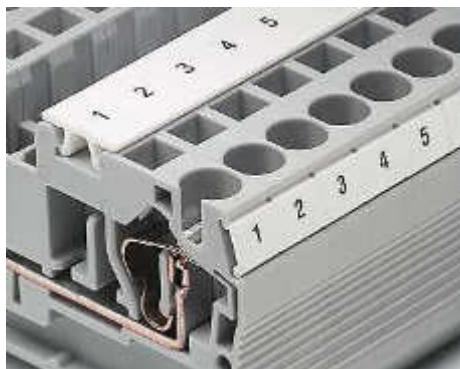
-40 ... 150

DIN EN 61010-1 (VDE 0411-1)

Silicone-free

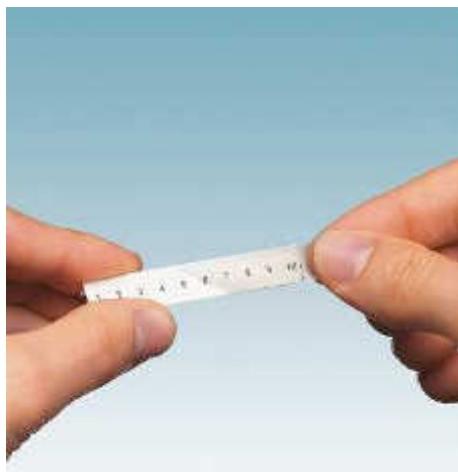
Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Marking foil for zack marker strip, unprinted, perforated, 1 roll = 1000 strips, strip length: 101 mm, strip height: 9.5 mm	transparent transparent	TML (101X9,5)R TR TML (101X9,5)R TR CUS	0816647 0824473	1 1
labeled according to customer specifications ¹⁾				
Marking foil for zack marker strip, flat, unprinted, perforated, 1 roll = 1000 strips, strip length: 101 mm, strip height: 4.2 mm	transparent transparent	TML (101X4,2)R TR TML (101X4,2)R TR CUS	0816621 0824472	1 1
labeled according to customer specifications ¹⁾				



Self-adhesive marker strips

Can be printed with:



Thermal transfer for rolls

**Marker with strip height of 9.5 mm and 4.2 mm, continuous**

- The products in the TML labeling range allow subsequent labeling of zack marker strip materials and flat zack marker strip materials using a marking foil
- The markers that are supplied on rolls can be quickly and cost-effectively labeled using THERMOMARK printers
- Labeling service: Phoenix Contact can custom-label all TML markers in accordance with your requirements

Notes:

1) For ordering example, see page 359.

General data

Can be printed with:

Number of individual labels per strip

Material

Temperature range

[°C]

Wipe resistance

Components

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1

1

Polyester

-40 ... 150

DIN EN 61010-1 (VDE 0411-1)

Silicone-free

Ordering data

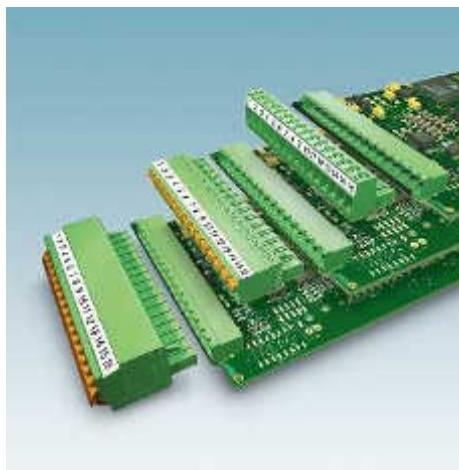
Description	Color	Type	Order No.	Pcs. / Pkt.
Marking foil for zack marker strip, unprinted, 1 roll = 40 m continuous, strip height: 9.5 mm labeled according to customer specifications¹⁾	transparent transparent	TML (EX9,5)R TR TML (EX9,5)R TR CUS	0816634 0824475	1 1
Marking foil for zack marker strip, flat, unprinted, 1 roll = 40 m continuous, strip height: 4.2 mm labeled according to customer specifications¹⁾	transparent transparent	TML (EX4,2)R TR TML (EX4,2)R TR CUS	0816715 0824474	1 1



Marking and labeling - MARKING system

Terminal marking

Self-adhesive marker strips for terminal blocks without a marker groove



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Markers labeled with 2.54 mm pitch

- The SK range of self-adhesive labels can be used to label products that do not feature a marker groove
- The markers that are supplied on rolls can be quickly and cost-effectively labeled using THERMOMARK printers
- The markers that are supplied as cards can be easily labeled using standard laser printers
- Ideal for labeling COMBICON connectors
- Labeling service: Phoenix Contact can custom-label SK markers in accordance with your requirements

Notes:

1) For ordering example, see page 359.

General data

Material	[°C]
Temperature range	
Wipe resistance	

Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Technical data

Description

Color

Marker card, printed horizontally, self-adhesive, 10-section marking stripes, 14 identical decades marked with 1-10, 11-20, etc. up to 91-100, adequate for 140 terminal blocks (SK 2,54...SK 3,81...max. 2 characters per terminal block)

white

Type

Order No.

Pcs./Pkt.

Ordering data

Marker card, self-adhesive, marked according to customer specifications, 14-section marker strips, max. 25-pos. marking (SK...P2,54 to SK...P3,81 max. 2 characters per pos.)¹⁾

white

SK 2,54/2,8:FORTL.ZAHLEN

0804853

10

Marker card, unprinted, DIN A4 format, pitch as desired, self-adhesive, with 50 perforated marker strips, strip length of 185 mm

white

SK 2,8 REEL P2,54 WH CUS

0825120

1

Self-adhesive marker strips, unprinted, continuous, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 14 strips, strip height of 2.8 mm, 1 roll = 90 m

white

SK U/2,8 WH:UNBEDRUCKT

0803883

10

white

SK 2,8 WH:REEL

0805205

1



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FOR YOU

Markers labeled with 3.5 mm pitch

PRINTED
FOR YOU

Markers labeled with 3.81 mm pitch

PRINTED
FOR YOU

Markers labeled with 5.08 mm pitch

Technical data			Technical data			Technical data		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
SK 3,5/2,8:FORTL.ZAHLEN	0804073	10	SK 3,81/2,8:FORTL.ZAHLEN	0804109	10	SK 5,08/2,8:FORTL.ZAHLEN	0804280	10
SK 2,8 REEL P3,5 WH CUS	0825121	1	SK 2,8 REEL P3,81 WH CUS	0825122	1	SK 2,8 REEL P5,08 WH CUS	0825123	1
SK U/2,8 WH:UNBEDRUCKT	0803883	10	SK U/2,8 WH:UNBEDRUCKT	0803883	10	SK U/2,8 WH:UNBEDRUCKT	0803883	10
SK 2,8 WH:REEL	0805205	1	SK 2,8 WH:REEL	0805205	1	SK 2,8 WH:REEL	0805205	1

Marking and labeling - MARKING system

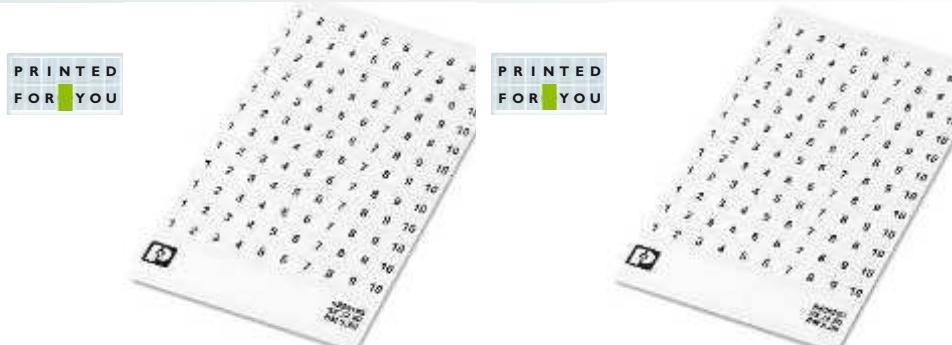
Terminal marking

Self-adhesive marker strips for terminal blocks without a marker groove

- The SK range of self-adhesive labels can be used to label products that do not feature a marker groove
- Labeling service: Phoenix Contact can custom-label SK markers in accordance with your requirements

Notes:

1) For ordering example, see page 359.



Markers labeled with 5 mm pitch

Markers labeled with 5.08 mm pitch

General data		Technical data			Technical data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Marker card, printed horizontally, self-adhesive, 10-section marker strip, 12 identical decades marked, for example, with 1-10, 11-20, etc. up to 91-100, sufficient for 120 terminal blocks	white	SK 5/3,8:FORTL.ZAHLEN	0804183	10	SK 5,08/3,8:FORTL.ZAHLEN	0804293	10
Marker card, self-adhesive, marked according to customer specifications, 12-section marker strips, max. 25-pos. marking per strip ¹⁾	white	SK 3,8 REEL P5 WH CUS	0825124	1	SK 3,8 REEL P5,08 WH CUS	0825125	1
Marker card, unprinted, DIN A4 format, pitch as desired, self-adhesive, with 40 perforated marker strips, strip length of 185 mm	white	SK U/3,8 WH:UNBEDRUCKT	0803906	10	SK U/3,8 WH:UNBEDRUCKT	0803906	10
Self-adhesive marker strips, unprinted, continuous, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 12 strips, strip height of 3.8 mm, 1 roll = 90 m	white	SK 3,8 WH:REEL	0805218	1	SK 3,8 WH:REEL	0805218	1



Markers labeled with 6.2 mm pitch



Markers labeled with 7.5 mm pitch



Markers labeled with 7.62 mm pitch

Technical data			Technical data			Technical data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
SK 6,2/3,8:FORTL.ZAHLEN	0804374	10	SK 7,5/3,8:FORTL.ZAHLEN	0804455	10	SK 7,62/3,8:FORTL.ZAHLEN	0804549	10
SK 3,8 REEL P6,2 WH CUS	0825126	1	SK 3,8 REEL P7,5 WH CUS	0825127	1	SK 3,8 REEL P7,62 WH CUS	0825128	1
SK U/3,8 WH:UNBEDRUCKT	0803906	10	SK U/3,8 WH:UNBEDRUCKT	0803906	10	SK U/3,8 WH:UNBEDRUCKT	0803906	10
SK 3,8 WH:REEL	0805218	1	SK 3,8 WH:REEL	0805218	1	SK 3,8 WH:REEL	0805218	1

Marking and labeling - MARKING system

Terminal marking

Self-adhesive marker strips for terminal blocks without a marker groove

- The SK range of self-adhesive labels can be used to label products that do not feature a marker groove
- Labeling service: Phoenix Contact can custom-label all TMT markers in accordance with your requirements

Notes:

1) For ordering example, see page 359.



Markers labeled with 7.5 mm pitch



Markers labeled with 7.62 mm pitch

General data		Technical data			Technical data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Marker card, printed horizontally, self-adhesive, 10-section marker strip, 10 identical decades marked 1-10, 11-20, etc. up to 91-100, for example, sufficient for 100 terminal blocks	white	SK 7,5/5:FORTL.ZAHLEN	0804468	10	SK 7,62/5:FORTL.ZAHLEN	0804552	10
Marker card, self-adhesive, labeled according to customer specifications, 10-section marker strips, max. 25-pos. marking per strip ¹⁾		SK 5,0 REEL P7,5 WH CUS	0825131	1	SK 5,0 REEL P7,62 WH CUS	0825132	1
Marker card, unprinted, DIN A4 format, pitch as desired, self-adhesive, with 35 perforated marker strips, strip length of 185 mm	white	SK U/5,0 WH:UNBEDRUCKT	0803922	10	SK U/5,0 WH:UNBEDRUCKT	0803922	10
Self-adhesive marker strips, unprinted, continuous, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 10 strips, strip height of 5.0 mm, 1 roll = 90 m	white	SK 5,0 WH:REEL	0805221	1	SK 5,0 WH:REEL	0805221	1

Self-adhesive marker strips for terminal blocks without a marker groove



Markers with a strip length of up to 1000 mm

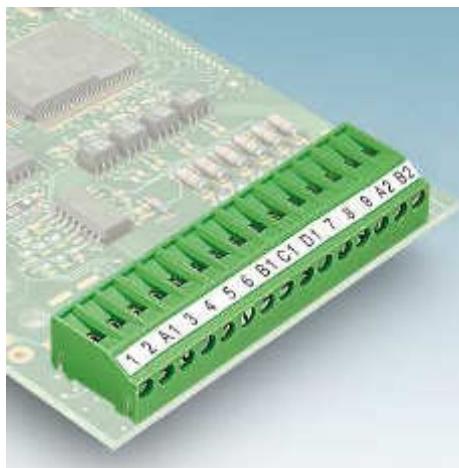


Markers with a strip length of up to 185 mm

		Technical data		Technical data	
General data					
Can be printed with:		THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1		CMS-P1-PLOTTER • Office printing systems	
Material	Polyester				
Temperature range	[°C]	-40 ... 150		Polyester	
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		-40 ... 150	
Components		free from silicone and halogen		DIN EN 61010-1 (VDE 0411-1)	
		Ordering data		Ordering data	
Description	Color	Type	Order No.	Pcs. / Pkt.	Type
Self-adhesive marker strips, unprinted, continuous , material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 14 strips, strip height of 2.8 mm, 1 roll = 90 m	white	SK 2,8 WH:REEL	0805205	1	
Self-adhesive marker strips, unprinted, continuous , material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 12 strips, strip height of 3.8 mm, 1 roll = 90 m	white	SK 3,8 WH:REEL	0805218	1	
Self-adhesive marker strips, unprinted, continuous , material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 10 strips, strip height of 5.0 mm, 1 roll = 90 m	white	SK 5,0 WH:REEL	0805221	1	
Marker card, unprinted , DIN A4 format, pitch as desired, self-adhesive, with 50 perforated marker strips, strip length of 185 mm	white	SK 10,0 WH:REEL	0812188	1	
Marker card, unprinted , DIN A4 format, pitch as desired, self-adhesive, with 40 perforated marker strips, strip length of 185 mm	white				SK U/2,8 WH:UNBEDRUCKT
Marker card, unprinted , DIN A4 format, pitch as desired, self-adhesive, with 35 perforated marker strips, strip length of 185 mm	white				0803883 10
					SK U/3,8 WH:UNBEDRUCKT
					0803906 10
					SK U/5,0 WH:UNBEDRUCKT
					0803922 10

Terminal marking

Self-adhesive marker strips for terminal blocks without a marker groove



- The TML marking range offers self-adhesive marker strips for marking products that do not have a marker groove



Thermal transfer for rolls



Unlabeled

Technical data

General data

Can be printed with:

Number of individual labels per strip

Material

Temperature range

Wipe resistance

Components

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1

1

Polyester

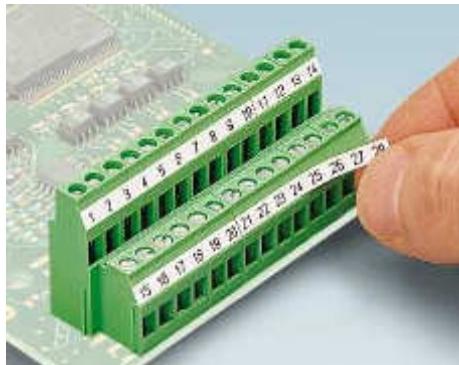
-40 ... 150

DIN EN 61010-1 (VDE 0411-1)

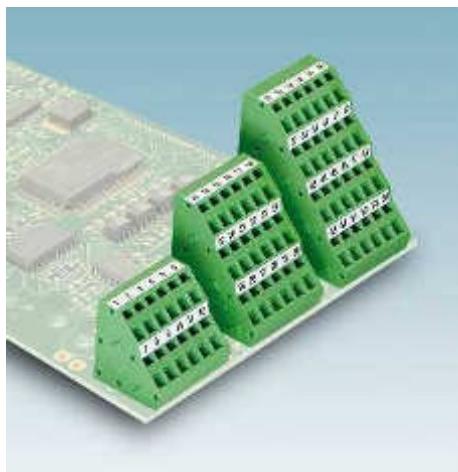
free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Self-adhesive marker strips, unprinted				
1 roll = 2500 strips, lettering field size: 104 x 2.8 mm	white	TML (104X2,8)R	0801832	1
1 roll = 2500 strips, lettering field size: 104 x 3.8 mm	white	TML (104X3,8)R	0801833	1
1 roll = 2500 strips, lettering field size: 104 x 5 mm	white	TML (104X5)R	0801834	1
1 roll = 1500 strips, lettering field size: 104 x 10 mm	white	TML (104X10)R	0801835	1



Self-adhesive marker strips for terminal blocks without marker groove, continuous



Thermal transfer for rolls



Unlabeled

- The TML marking range offers self-adhesive marker strips for marking products that do not have a marker groove
- The marker strips are automatically perforated or cut to the required length during the printing process

General data

Can be printed with:

Number of individual labels per strip

Material

Temperature range

Wipe resistance

Components

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1

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Polyester

-40 ... 150

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Self-adhesive marker strips, unprinted, continuous				
1 roll = 30 m continuous, strip height: 2.8 mm	white	TML (EX2,8)R	0801836	1
1 roll = 30 m continuous, strip height: 3.8 mm	white	TML (EX3,8)R	0801837	1
1 roll = 30 m continuous, strip height: 5 mm	white	TML (EX5)R	0801838	1
1 roll = 30 m continuous, strip height: 7 mm	white	TML (EX7)R	0830837	1
1 roll = 30 m continuous, strip height: 10 mm	white	TML (EX10)R	0801839	1

Marking and labeling - MARKING system

Terminal marking

UniCard group marking for snapping into CLIPFIX 35-5 end bracket



Can be printed with:



Thermal transfer for sheets and cards



UV LED technology



- Group marking which saves space
- Large labeling option
- The markers, which are supplied in uniform sheets, can be labeled quickly and easily using the BLUEMARK CLED and THERMOMARK CARD ...

- The format automatically ensures printing with a high level of positional accuracy
- The markers support multiline labeling
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

1) For ordering example, see page 359.

General data

Can be printed with:

Number of individual labels

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

THERMOMARK CARD PLUS • THERMOMARK CARD •
BLUEMARK CLED • BLUEMARK LED

24

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Technical data

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, can be labeled with THERMOMARK CARD and BLUEMARK		UCT-EM (30X5) UCT-EM (30X5) YE	0801505 0830340	10 10
Lettering field size: 30 x 5 mm	white yellow			
UniCard, labeled according to customer specifications ¹⁾		UCT-EM (30X5) CUS UCT-EM (30X5) YE CUS	0801589 0830348	1 1
Lettering field size: 30 x 5 mm	white yellow			

Accessories

CLIPFIX 35-5	3022276	50
THERMOMARK CARD-UCT-MAG10	0801737	1

Labeling of terminal block groups for snapping into a tall marker groove

- Space-saving group labeling directly on the terminal block
- Fits all terminal blocks with a design width of 3.5 mm and a tall center marker groove
- Large-surface labeling with labels or manually using B-STIFT or X-PEN

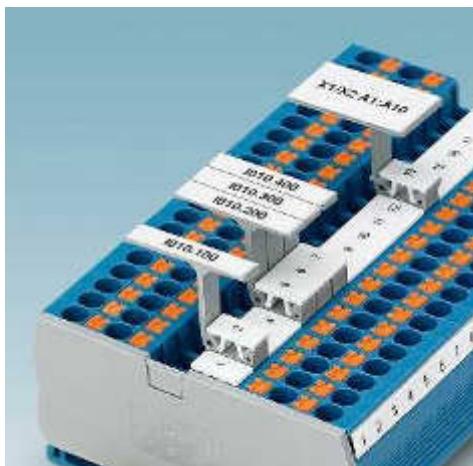


3.5 mm and 5.2 mm pitch



29 mm pitch

		Technical data		Technical data	
General data		PA V2 -40 ... 120 free from silicone and halogen		PA / PC V2 -40 ... 100 free from silicone and halogen	
		Ordering data		Ordering data	
Description	Color	Type	Order No.	Pcs. / Pkt.	Type
Group marking label , can be snapped into terminal center, can be marked with an EML (24X3)R or EML (25,4X12,7)R... label or manually with B-STIFT or X-PEN, in the foot part with ZB 3,5	gray gray	GBS 3,5-25X3,5 GBS 3,5-25X12	0830290 0830292	100 100	
Group marking label , can be snapped into terminal center, can be marked with an EML (24X4)R or EML (25,4X12,7)R label or manually with B-STIFT or X-PEN, in the foot part with ZB 5, UC-TM 5	gray gray	GBS 5-25X5 GBS 5-25X12	0829126 0810588	100 100	
Group marking label , can be snapped into terminal center, can be labeled with ESL 26 x 6 or EMT (25 x 6) R insert strips, in foot part with zack marker strip ZB, length: 29 mm	gray				GBS-ZB/26X6
					0809298
					50
		Accessories		Accessories	
Label 2500 labels p. roll 2500 labels p. roll 1000 labels p. roll	white white white	EML (24X3)R EML (25,4X12,7)R EML (24X4)R	0830291 0816825 0800061	1 1 1	
Insert strip for laser printer , perforated, for terminal strip marker KLM, labeling field: 26 x 6 mm					ESL 26X 6
Lettering field size: 26 x 6 mm	white				0808105
Insert labels for thermal transfer printers					10
Lettering field size: 25 x 6 mm, 5000 labels p. roll	white				EMT (25X6)R
					0817264
					1



Marking and labeling - MARKING system

Terminal marking

Marker carrier for STP ... multi-level terminal blocks



STP ...

- The labeling areas of wired multi-level terminal blocks are increased in size using the marker carriers
- Depending on the version, the marker carriers are placed in the receivers on the upper terminal block level

STP ...-ZB

- The marker carriers can, for example, snap into the center marking groove of ST spring-cage terminal blocks and double the marking area; see figure below

CARRIER-TM 300

- Can be snapped into all terminal blocks in the CLIPLINE complete system that have a lateral flat marker groove
- For accommodating ZB ... , UC-TM ... or UCT-TM ... terminal markers which increases the marking area

CARRIER-TMD 300

- Double-row snap-in marker adapter for accommodating two ZB ... or UC-TM ... and UCT-TM ... terminal markers which doubles the marking area



General data

Material	PA
Inflammability class according to UL 94	V2
Temperature range	[°C]
Components	-40 ... 100 free from silicone and halogen

Technical data

Description	Color	Type	Order No.	Pcs. / Pkt.
Double marker carrier , can be snapped into push-in double-level terminal blocks PTTB 1,5/S, can be labeled with ZB 3,5 or ZBF 3,5	gray	STP 3,5-2	0830131	100
Triple marker carrier , can be snapped into the push-in three-level terminal block PT 1,5/S-3..., can be labeled with ZB 3,5 or ZBF 3,5	gray	STP 3,5-3	0830132	100
Double marker carrier , can be snapped into the double-level terminal blocks STTB 1,5, PTTB 1,5, can be labeled with UC-TM 4, ZB 4 or UC-TMF 4, ZBF 4	gray	STP 4-2	0810575	100
Double marker carrier , can be snapped into STTB 2,5, STTB 4, PTTB 2,5, PTTB 4 double-level terminal blocks, can be labeled with UC-TM 5, ZB 5 or UC-TMF 5, ZBF 5	gray	STP 5-2	0800967	100
Three-compartment marker carrier , can be snapped into ST 2,5-3... and PT 2,5-3... three-level terminal blocks, can be labeled with UC-TMF 5 and ZBF 5 or ...TM 5 and ZB 5	gray	STP 5-3	0810562	100
Double marker carrier , snaps into double-level fast connection terminal blocks, QTTCB ... and QTTCBS, can be labeled with ZB 5 and ZBF 5	gray	STP 5-2/S	0800970	100
Double marker carrier , snaps into all terminal blocks with a width of 4.2 mm and a zack marker strip center groove, can be labeled with ZB 4 or ZBF 4	gray	STP 4-2-ZB	3038613	100
Double marker carrier , snaps into all terminal blocks with a width of 5.2 mm and a zack marker strip center groove, can be labeled with ZB 5 or ZBF 5	gray	STP 5-2-ZB	3037643	100
Marker adapter , 300 mm long, can be snapped into the lateral groove on modular terminal blocks, designed to accommodate ZB ... or UC-TM ...	gray	CARRIER-TM 300	0828282	25
Marker adapter, double row , 300 mm long, can be snapped into the center groove on modular terminal blocks, designed to accommodate two ZB ... or UC-TM ...	gray	CARRIER-TMD 300	0828693	25
Marker adapters , such as the CARRIER-TM 300; marking area at an angle to the top of the terminal block	gray	CARRIER-TMH 300	0830670	25

WS... warning labels

- Warning labels and warning covers serve to cover and identify mains terminal blocks
- This prevents accidental actuation of the terminal points
- The warning labels snap into the screw shafts of the relevant terminal
- Can be isolated lengthwise and crosswise



Warning labels for terminals from the UT ... and ST ... series

Technical data				
PA DIN EN 61010-1 (VDE 0411-1)				
Description	Color	Type	Order No.	Pcs. / Pkt.
Warning label , for UT series				
5.2 mm wide	yellow	WS UT 2,5	3047923	10
6.2 mm wide	yellow	WS UT 4	3047332	10
8.2 mm wide	yellow	WS UT 6	3047345	10
10.2 mm wide	yellow	WS UT 10	3047361	10
12 mm wide	yellow	WS UT 16	3047374	10
16 mm wide	yellow	WS UT 35	3047387	10
Warning cover , for ST series				
4.2 mm wide	yellow	WST 1,5	3030958	50
5.2 mm wide	yellow	WST 2,5	3030941	50
6.2 mm wide	yellow	WST 4	3030954	50
8.2 mm wide	yellow	WST 6	3030967	10
10.2 mm wide	yellow	WST 10/35	3030006	25



Marking and labeling - MARKING system

Terminal marking

Terminal marking for Phoenix Contact



Large terminal block markers for central and side labeling

UC-TM 4 UC-TM 5 UC-TM 6 UC-TM 8 UC-TM 10 UC-TM 12 UC-TM 16

see page 58 onwards

ZB 4 ZB 5 ZB 6 ZB 8 ZB 10 ZB 12 ZB 16

see page 68 onwards

UCT-TM 4 UCT-TM 5 UCT-TM 6 UCT-TM 8 UCT-TM 10 UCT-TM 12 UCT-TM 16

see page 82 onwards

TMT 4 R TMT 5 R TMT 6 R TMT 8 R TMT 10 R TMT 100 R TMT 100 R

see page 94 onwards

Screw terminal blocks

	Pitch	4	5	6	8	10	12	16
UT 2,5..., UTTB 2,5..., UTN 2,5..., MUT 2,5...	5							
UT 4..., UTTB 4..., UTME(D) 4..., UTN 4..., USST 4...	6							
UT 6..., UTME(D) 6..., UTN 6..., USST 6...	8							
UT 10..., UTN 10..., USST 10...	10							
UT 16..., UTI 16...	12							
UT 35	16							
UK 1,5 N..., USLKG 1,5 N	4							
UK 2,5 N..., USLKG 2,5 N, UK 3 N..., USLKG 3, UKK(B) 3..., UDK 3..., MTK(D)...	5							
UK 5 N..., USLKG 5 N, UDK 4..., UKK(B) 5, UDMTK(B) 5..., UKN 2,5..., UKN 5..., PIK 4..., SSK 0525...	6							
UK 6 N..., USLKG 6 N, UKN 6..., PIK 6..., URTK..., UGSK..., URDK..., UK 6-T..., SSK 110	8							
UK 10 N..., USLKG 10 N, UKKB 10..., UKN 10..., SK 116...	10							
U(I)K 16..., U(I)SLKG 16, UIKN 16...	12							
U(I)K 35..., U(I)SLKG 35, UIKN 35..., SSK 135...	15							
UKH..., USLKG 50/95, USLKG 50/70/95	> 16							
DIK(D) 1,5..., DOK(D) 1,5..., VIOK 1,5..., DLK(B) 2,5..., SLKK 5...	6							
UVKB 4..., UHK 4..., USK 4..., UK 4..., UKK 4..., VBST 4...	6							
UK 5-HESI..., UKK 5-HESI..., UK-SI..., UK 6-FSI..., UK 10-DREHSI...	8							
UK 6,3-HESI..., USIG...	10							
MT 1,5..., MTTB 1,5...	4							
MBK 6..., MSLKG 6	8							
DFK 4...	6							
DFK 5...	9,5							
UW(V) 4...	8							
UW(V) 10.../16.../25...	≥ 10							
HDFK(V) 50..., HDFK(V) 95...	> 18							

 The pitch of the terminal block corresponds to the width of the label

 The pitch of the terminal block is greater than the width of the label



UC-TMF 4	UC-TMF 5	UC-TMF 6	UC-TMF 8	UC-TMF 10	UC-TMF 12	UC-TMF 16	US-TMF 100
see page 62 onwards							
ZBF 4	ZBF 5	ZBF 6	ZBF 8	ZBF 10	ZBF 12	ZBF 16	
see page 76 onwards							
UCT-TMF 4	UCT-TMF 5	UCT-TMF 6	UCT-TMF 8	UCT-TMF 10	UCT-TMF 12	UCT-TMF 16	
see page 86 onwards							
TMT 4 R	TMT 5 R	TMT 6 R	TMT 8 R	TMT 10 R	TMT 100 R	TMT 100 R	
see page 94 onwards							

Small terminal block markers for central and side labeling

Pitch 4 5 6 8 10 12 16

Screw terminal blocks

UT 2,5..., UTTB 2,5..., UTN 2,5..., MUT 2,5..., UTI 2,5...	5	■■■■■	■■■■■						
UT 4..., UTTB 4..., UTME(D) 4..., UTN 4..., USST 4...	6	■■■■■■	■■■■■■						
UT 6..., UTME(D) 6..., UTN 6..., USST 6...	8	■■■■■■■■	■■■■■■■■	■■■■■■■■					
UT 10..., UTN 10..., USST 10...	10	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■				
UT 16..., UTI 16...	12	■■■■■■■■■■■■	■■■■■■■■■■■■	■■■■■■■■■■■■	■■■■■■■■■■■■	■■■■■■■■■■■■			
UT 35	16	■■■■■■■■■■■■■■	■■■■■■■■■■■■■■	■■■■■■■■■■■■■■	■■■■■■■■■■■■■■	■■■■■■■■■■■■■■	■■■■■■■■■■■■■■		
UK 1,5 N..., USLKG 1,5 N	4	■■■■■	■■■■■						
UK 2,5 N..., USLKG 2,5 N, UK 3 N..., USLKG 3, UKK(B) 3..., UDK 3..., MTK(D)...	5	■■■■■	■■■■■						
UK 5 N..., USLKG 5 N, UDK 4..., UKK(B) 5, UDMTK(B) 5..., UKN 2,5..., UKN 5..., PIK 4..., SSK 0525	6	■■■■■■	■■■■■■						
UK 6 N..., USLKG 6 N, UKN 6..., PIK 6..., URTK..., UGSK..., URDK..., UK 6-T, SSK 110	8	■■■■■■■■	■■■■■■■■	■■■■■■■■	■■■■■■■■	■■■■■■■■	■■■■■■■■		
UK 10 N..., USLKG 10 N, UKKB 10..., UKN 10..., SSK 116	10	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■				
U(I)K 16..., U(I)SLKG 16, UIKN 16...	12	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■			
U(I)K 35..., U(I)SLKG 35, UIKN 35..., SSK 135	15	■■■■■■■■■■■■	■■■■■■■■■■■■	■■■■■■■■■■■■	■■■■■■■■■■■■	■■■■■■■■■■■■			
UKH..., USLKG 50/95, USLKG 50/70/95	> 16	■■■■■■■■■■■■■■	■■■■■■■■■■■■■■	■■■■■■■■■■■■■■	■■■■■■■■■■■■■■	■■■■■■■■■■■■■■	■■■■■■■■■■■■■■		
DIK(D) 1,5..., DOK(D) 1,5..., VIOK 1,5..., DLK(B) 2,5..., SLKK 5...	6	■■■■■■	■■■■■■						
UVKB 4..., UHK 4..., USK 4..., UK 4..., UKK 4..., VBST 4...	6	■■■■■■	■■■■■■	■■■■■■	■■■■■■	■■■■■■	■■■■■■		
UK 5-HESI..., UKK 5-HESI..., UK-SI..., UK 6-FSI..., UK 10-DREHSI...	8	■■■■■■■■	■■■■■■■■	■■■■■■■■	■■■■■■■■				
UK 6,3-HESI..., UK 10,3 HESI..., USIG...	10	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■			
MT 1,5..., MTTB 1,5...	4	■■■■■	■■■■■						
MBK 6..., MSLKG 6	8	■■■■■■■■	■■■■■■■■	■■■■■■■■	■■■■■■■■	■■■■■■■■	■■■■■■■■		
DFK 4...	6	■■■■■■	■■■■■■	■■■■■■					
DFK 5...	9.5	■■■■■■■■	■■■■■■■■	■■■■■■■■	■■■■■■■■	■■■■■■■■			
UW(V) 4...	8	■■■■■■■■	■■■■■■■■	■■■■■■■■	■■■■■■■■				
UW(V) 10.../16.../25...	≥ 10	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■			
HDFK(V) 50..., HDFK(V) 95...	> 18	■■■■■■■■■■■■	■■■■■■■■■■■■	■■■■■■■■■■■■	■■■■■■■■■■■■	■■■■■■■■■■■■			

Marking and labeling - MARKING system

Terminal marking

Terminal marking for Phoenix Contact



	UC-TM 4	UC-TM 5	UC-TM 6		UC-TM 8	UC-TM 10	UC-TM 12	UC-TM 16
see page 58 onwards								
ZB 3,5	ZB 4	ZB 5	ZB 6	ZB 7,62	ZB 8	ZB 10	ZB 12	ZB 16
see page 68 onwards								
UCT-TM 3,5	UCT-TM 4	UCT-TM 5	UCT-TM 6	UCT-TM 7,62	UCT-TM 8	UCT-TM 10	UCT-TM 12	UCT-TM 16
see page 82 onwards								
	TMT 4 R	TMT 5 R	TMT 6 R		TMT 8 R	TMT 10 R	TMT 100 R	TMT 100 R
see page 94 onwards								

Large terminal block markers for central labeling

Pitch	3.5	4	5	6	7.62	8	10	12	16
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Spring-cage terminal blocks

ST 1,5/S-QUATTRO	3.5	■							
ST 1,5...	4	■	■	■					
ST 2,5... (except ST 2,5-3L)	5	■	■	■	■				
ST 4..., STTB 4...	6	■	■	■	■				
ST 6..., STME(D) 6...	8	■	■	■	■	■	■		
ST 10...	10	■	■	■	■	■	■		
ST 16...	12	■	■	■	■	■	■	■	
ST 35...	16	■	■	■	■	■	■	■	■
ST 4-HESI (6,3 x 32), ST 4-FSI...	8	■	■	■	■	■	■		
STU 2,5...	5	■	■	■					
STU 4..., STTBU 4...	6	■	■	■	■				
STU 10...	10	■	■	■	■	■			
STU 35...	16	■	■	■	■	■	■		
STS 2,5..., STTBS 2,5...	5	■	■	■					
STS 4..., STTBS 4...	6	■	■	■	■				
STS 6...	8	■	■	■	■	■			
STI 2,5..., STN 2,5...	5	■	■	■					
STI 4..., STN 4...	6	■	■	■	■				
STI 10..., STN 10...	10	■	■	■	■	■	■		
STI 16..., STN 16...	12	■	■	■	■	■	■		
STN 35...	16	■	■	■	■	■	■		
SRTK 6..., SGSK 6..., SRDK 6...	8	■	■	■	■	■			
ZRV...	7.62	■	■	■	■				
ZRTK..., ZGSK..., ZRDK...	8	■	■	■	■	■			

The pitch of the terminal block corresponds to the width of the label

The pitch of the terminal block is greater than the width of the label



	UC-TMF 4	UC-TMF 5	UC-TMF 6	UC-TMF 8	UC-TMF 10	UC-TMF 12	UC-TMF 16	US-TMF 100
see page 62 onwards								
ZBF 3,5	ZBF 4	ZBF 5	ZBF 6	ZBF 8	ZBF 10	ZBF 12	ZBF 16	91
see page 76 onwards								
UCT-TMF 3,5	UCT-TMF 4	UCT-TMF 5	UCT-TMF 6	UCT-TMF 8	UCT-TMF 10	UCT-TMF 12	UCT-TMF 16	
see page 86 onwards								
	TMT 4 R	TMT 5 R	TMT 6 R	TMT 8 R	TMT 10 R	TMT 100 R	TMT 100 R	

Small terminal block markers
for central and side labeling

Pitch	3.5	4	5	6	8	10	12	16
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see page 94 onwards

Spring-cage terminal blocks

ST 1,5/S-QUATTRO	3.5							
ST 1,5..., STTB 1,5...	4							
ST 2,5..., STTB 2,5..., ST 2,5-3..., STIO...	5							
ST 4..., STTB 4...	6							
ST 6..., STME(D) 6...	8							
ST 10...	10							
ST 16...	12							
ST 35...	16							
ST 4-HESI (6,3 x 32), ST 4-FSI...	8							
STU 2,5...	5							
STU 4..., STTBU 4...	6							
STU 10...	10							
STU 35...	16							
STS 2,5..., STTBS 2,5...	5							
STS 4..., STTBS 4...	6							
STS 6...	8							
STI 2,5..., STN 2,5...	5							
STI 4..., STN 4...	6							
STI 10..., STN 10...	10							
STI 16..., STN 16...	12							
STN 35...	16							
SRTK 6..., SGSK 6..., SRDK 6...	8							
ZRV...	7.62							
ZRTK..., ZGSK..., ZRDK...	8							
ZFK 6-DREHSI...	12							
ZFKK 2,5...	5							
ZDMTK 2,5...	6							
ZPV...	5							
MZFKK 1,5...	5							
MSB(V) 2,5.../ MSDB(V) 2,5...	5/10							

Marking and labeling - MARKING system

Terminal marking

Terminal marking for Phoenix Contact



Large terminal block markers
for central labeling

	UC-TM 4	UC-TM 5	UC-TM 6	UC-TM 8	UC-TM 10	UC-TM 12	UC-TM 16	US-TM 100
see page 58 onwards								91
ZB 3,5	ZB 4	ZB 5	ZB 6	ZB 8	ZB 10	ZB 12	ZB 16	
see page 68 onwards								
UCT-TM 3,5	UCT-TM 4	UCT-TM 5	UCT-TM 6	UCT-TM 8	UCT-TM 10	UCT-TM 12	UCT-TM 16	
see page 82 onwards								
	TMT 4 R	TMT 5 R	TMT 6 R	TMT 8 R	TMT 10 R	TMT 100 R	TMT 100 R	
see page 94 onwards								

Pitch	3.5	4	5	6	8	10	12	16

Push-in connection terminal blocks

PT 1,5/S..., PTTB 1,5/S..., PTS 1,5/S..., PTTBS 1,5/S...	3.5	■							■
PT 2,5..., PTTB 2,5..., PTTBS 2,5..., PTI 2,5..., PTN 2,5..., PTS 2,5..., PTU 2,5...	5	■	■	■	■				■
PT 4..., PTME(D) 4..., PTTB 4..., PTI 4..., PTN 4..., PTU 4...	6	■	■	■	■				■
PT 6..., PTME 6..., PTI 6..., PTN 6...	8	■	■	■	■	■			■
PT 10...	10	■	■	■	■	■	■		■
PT 16...	12	■	■	■	■	■	■		■
PTPOWER...	25	■	■	■	■	■	■	■	■

Fast connection terminal blocks

QTC(U)(S) 1,5...,	5	■	■	■					
QTC(U)(S) 2,5...,	6	■	■	■	■				

Bolt connection terminal blocks

OTTA 2,5...	9	■	■	■	■	■			
OTTA 6....	11	■	■	■	■	■			
OTTA 25...	18	■	■	■	■	■	■		
RT(O) 3..., RBO...	12	■	■	■	■	■	■		
RT(O) 5...	16	■	■	■	■	■	■		
RT(O) 8...	20	■	■	■	■	■	■		
HV M.../1, HV M.../2	> 13	■	■	■	■	■	■		
UHV 25- UHV 240	> 26	■	■	■	■	■	■		

The pitch of the terminal block corresponds to the width of the label

The pitch of the terminal block is greater than the width of the label



Small terminal block markers for central and side labeling

Fast connection terminal blocks

Bolt connection terminal blocks

Category	Total Length
OTTA 2,5...	9
OTTA 6....	11
OTTA 25...	18
RT(O) 3...	12
RT(O) 5...	16
RT(O) 8...	20
HV M.../1, HV M.../2	> 13
UHV 25- UHV 240	> 26

COMBI plugs and couplings

Polymer Type	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8
UPBV 2,5..., SP(V) 2,5..., SP-H 2,5 ..., SP(D)B 2,5..., SC 2,5...	5	0	0	0	0	0	0	0
UP 4..., UPBV 4...	5	0	0	0	0	0	0	0
SP 4..., SC 4...	6	0	0	0	0	0	0	0
PP-H 1,5/S..., PPC 1,5/S...	3.5	0	0	0	0	0	0	0
PP-H 2,5..., QP 1,5...	5	0	0	0	0	0	0	0
UP 6...	8	0	0	0	0	0	0	0
PP-H 4...	6	0	0	0	0	0	0	0
PP-H 6..., PPC 6...	8	0	0	0	0	0	0	0

Marking and labeling - MARKING system

Terminal marking

UniCard marking for terminal blocks from other manufacturers with a tall marker groove



- The UC1-TM ... UniCard labeling range includes markers for Weidmüller, Conta-Clip, and Klemsan terminal blocks
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK CLED
- The multi-section marking strips are easy to fit and can be easily separated if required
- The markers support multiline labeling
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

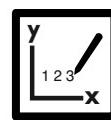
An overview of markable terminal blocks can be found on page 140 onwards.

1) For ordering example, see page 359.

Can be printed with:



UV LED technology



Plotter



96 markers for a terminal block width of 5 mm

Technical data

General data

Can be printed with:

Number of individual labels

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

96

12

PA

V2

Material

Inflammability class according to UL 94

-40 ... 120

Temperature range

DIN EN 61010-1 (VDE 0411-1)

Wipe resistance

free from silicone and halogen

Components

[°C]

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for labeling terminal block brands from other companies				
	white	UC1-TM 5	0821784	10
	red	UC1-TM 5 RD	0828185	10
	orange	UC1-TM 5 OG	0828186	10
	yellow	UC1-TM 5 YE	0828187	10
	blue	UC1-TM 5 BU	0828188	10
	green	UC1-TM 5 GN	0828189	10
	white			
With offset foot, see pictogram product photo				
UniCard, for labeling terminal block brands from other companies, labeled acc. to customer specifications ¹⁾				
	white	UC1-TM 5 CUS	0824507	1
	red	UC1-TM 5 RD CUS	0828318	1
	orange	UC1-TM 5 OG CUS	0828319	1
	yellow	UC1-TM 5 YE CUS	0828320	1
	blue	UC1-TM 5 BU CUS	0828321	1
	green	UC1-TM 5 GN CUS	0828322	1
	white			

Accessories

Magazine, for CMS-P1-PLOTTER	P1 UC-MAG 5	5146118	1
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**96 markers for a terminal block width of 5 mm,
with an offset foot**



80 markers for a terminal block width of 6 mm



64 markers for a terminal block width of 8 mm

Technical data			Technical data			Technical data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER 96 12 PA V2 -40 ... 120 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen	0821302	10	BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER 80 10 PA V2 -40 ... 120 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen	0821247 0828190 0828191 0828192 0828193 0828194	10 10 10 10 10 10	BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER 64 8 PA V2 -40 ... 120 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen	0821739 0828195 0828196 0828197 0828198 0828199	10 10 10 10 10 10
UC1U-TM 5	0824521	1	UC1-TM 6 UC1-TM 6 RD UC1-TM 6 OG UC1-TM 6 YE UC1-TM 6 BU UC1-TM 6 GN	0824509 0828323 0828324 0828325 0828326 0828327	1 1 1 1 1 1	UC1-TM 8 UC1-TM 8 RD UC1-TM 8 OG UC1-TM 8 YE UC1-TM 8 BU UC1-TM 8 GN	0824511 0828328 0828329 0828330 0828331 0828332	1 1 1 1 1 1
Accessories			Accessories			Accessories		
P1 UC-MAG 5	5146118	1	P1 UC-MAG 5	5146118	1	P1 UC-MAG 5	5146118	1

Marking and labeling - MARKING system

Terminal marking

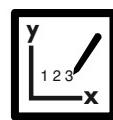
UniCard marking for terminal blocks from other manufacturers with a flat marker groove



Can be printed with:



UV LED technology



Plotter



120 markers for a terminal block width of 4 mm

- The UC1-TMF ... UniCard labeling range includes markers for Weidmüller, Wago, ABB (entrec), Conta-Clip, and Klemsan terminal blocks
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK CLED
- The multi-section marking strips are easy to fit and can be easily separated if required
- The markers support multiline labeling
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

An overview of markable terminal blocks can be found on page 140 onwards.

¹⁾ For ordering example, see page 359.

General data

Can be printed with:

Number of individual labels
Number of individual labels per strip
Material
Inflammability class according to UL 94
Temperature range
Wipe resistance
Components

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
120
15
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Technical data

Description

Type

Order No.

Pcs. / Pkt.

UniCard, for labeling terminal block brands from other companies

white	UC1-TMF 4	0821360	10
red	UC1-TMF 4 RD	0828200	10
orange	UC1-TMF 4 OG	0828201	10
yellow	UC1-TMF 4 YE	0828202	10
blue	UC1-TMF 4 BU	0828203	10
green	UC1-TMF 4 GN	0828204	10

UniCard, for labeling terminal block brands from other companies, labeled acc. to customer specifications¹⁾

white	UC1-TMF 4 CUS	0824513	1
red	UC1-TMF 4 RD CUS	0828333	1
orange	UC1-TMF 4 OG CUS	0828334	1
yellow	UC1-TMF 4 YE CUS	0828335	1
blue	UC1-TMF 4 BU CUS	0828336	1
green	UC1-TMF 4 GN CUS	0828337	1

Accessories

Magazine, for CMS-P1-PLOTTER

P1 UC-MAG 4

5146105

1



96 markers for a terminal block width of 5 mm

80 markers for a terminal block width of 6 mm

64 markers for a terminal block width of 8 mm

Technical data			Technical data			Technical data		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UC1-TMF 5	0821425	10	UC1-TMF 6	0821483	10	UC1-TMF 8	0821548	10
UC1-TMF 5 RD	0828205	10	UC1-TMF 6 RD	0828209	10	UC1-TMF 8 RD	0828214	10
UC1-TMF 5 OG	0828206	10	UC1-TMF 6 OG	0828210	10	UC1-TMF 8 OG	0828215	10
UC1-TMF 5 YE	0828127	10	UC1-TMF 6 YE	0828211	10	UC1-TMF 8 YE	0828216	10
UC1-TMF 5 BU	0828207	10	UC1-TMF 6 BU	0828212	10	UC1-TMF 8 BU	0828217	10
UC1-TMF 5 GN	0828208	10	UC1-TMF 6 GN	0828213	10	UC1-TMF 8 GN	0828218	10
UC1-TMF 5 CUS	0824515	1	UC1-TMF 6 CUS	0824517	1	UC1-TMF 8 CUS	0824519	1
UC1-TMF 5 RD CUS	0828338	1	UC1-TMF 6 RD CUS	0828343	1	UC1-TMF 8 RD CUS	0828348	1
UC1-TMF 5 OG CUS	0828339	1	UC1-TMF 6 OG CUS	0828344	1	UC1-TMF 8 OG CUS	0828349	1
UC1-TMF 5 YE CUS	0828340	1	UC1-TMF 6 YE CUS	0828345	1	UC1-TMF 8 YE CUS	0828350	1
UC1-TMF 5 BU CUS	0828341	1	UC1-TMF 6 BU CUS	0828346	1	UC1-TMF 8 BU CUS	0828351	1
UC1-TMF 5 GN CUS	0828342	1	UC1-TMF 6 GN CUS	0828347	1	UC1-TMF 8 GN CUS	0828352	1
Accessories			Accessories			Accessories		
P1 UC-MAG 4	5146105	1	P1 UC-MAG 4	5146105	1	P1 UC-MAG 4	5146105	1

Marking and labeling - MARKING system

Terminal marking

UniCard marking for terminal blocks from other manufacturers with a tall marker groove



Can be printed with:



UV LED technology



Plotter



120 markers for a terminal block width of 4 mm

- The UC2-TM ... UniCard labeling range includes markers for Wago terminal blocks
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK CLED
- The multi-section marking strips are easy to fit and can be easily separated if required
- The markers support multiline labeling
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

An overview of markable terminal blocks can be found on page 140 onwards.

¹⁾ For ordering example, see page 359.

General data

Can be printed with:

Number of individual labels

Number of individual labels per strip

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

120

15

PA

V2

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Technical data

Description

Color

UniCard, for labeling terminal block brands from other companies

white

UniCard, for labeling terminal block brands from other companies, labeled acc. to customer specifications¹⁾

white

white

white

white

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
UniCard , for labeling terminal block brands from other companies	UC2-TM 4	0821713	10
UniCard , for labeling terminal block brands from other companies, labeled acc. to customer specifications ¹⁾	UC2-TM 4 CUS	0824533	1

Accessories

Magazine , for CMS-P1-PLOTTER	P1 UC-MAG 5	5146118	1
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96 markers for a terminal block width of 5 mm

80 markers for a terminal block width of 6 mm

64 markers for a terminal block width of 8 mm

Technical data			Technical data			Technical data		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UC2-TM 5	0821690	10	UC2-TM 6	0821674	10	UC2-TM 8	0821755	10
UC2-TM 5 CUS	0824535	1	UC2-TM 6 CUS	0824537	1	UC2-TM 8 CUS	0824539	1
Accessories			Accessories			Accessories		
P1 UC-MAG 5	5146118	1	P1 UC-MAG 5	5146118	1	P1 UC-MAG 5	5146118	1

Marking and labeling - MARKING system

Terminal marking

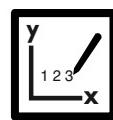
UniCard marking for terminal blocks from other manufacturers with a flat marker groove



Can be printed with:



UV LED technology



Plotter



120 markers for a terminal block width of 4 mm

- The UC2F-TM ... UniCard labeling range includes markers for ABB (entrelec) terminal blocks
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK CLED
- The multi-section marking strips are easy to fit and can be easily separated if required
- The markers support multiline labeling
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

An overview of markable terminal blocks can be found on page 140 onwards.

¹⁾ For ordering example, see page 359.

General data

Can be printed with:

Number of individual labels

Number of individual labels per strip

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

120

15

PA

V2

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Technical data

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for labeling terminal block brands from other companies	white	UC2F-TM 4	0822178	10
UniCard, for labeling terminal block brands from other companies, labeled acc. to customer specifications ¹⁾	white	UC2F-TM 4 CUS	0824525	1

Accessories

Magazine, for CMS-P1-PLOTTER	P1 UC-MAG 4	5146105	1
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96 markers for a terminal block width of 5 mm

80 markers for a terminal block width of 6 mm

64 markers for a terminal block width of 8 mm

Technical data			Technical data			Technical data		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UC2F-TM 5	0822181	10	UC2F-TM 6	0822194	10	UC2F-TM 8	0822204	10
UC2F-TM 5 CUS	0824527	1	UC2F-TM 6 CUS	0824529	1	UC2F-TM 8 CUS	0824531	1
Accessories			Accessories			Accessories		
P1 UC-MAG 4	5146105	1	P1 UC-MAG 4	5146105	1	P1 UC-MAG 4	5146105	1

Marking and labeling - MARKING system

Terminal marking

UniCard marking for terminal blocks from other manufacturers with a tall marker groove



- The UC3-TM ... UniCard labeling range includes markers for Wieland and Legrand terminal blocks
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK CLED
- The multi-section marking strips are easy to fit and can be easily separated if required
- The markers support multiline labeling
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

An overview of markable terminal blocks can be found on page 140 onwards.

¹⁾ For ordering example, see page 359.

Can be printed with:



UV LED technology



Plotter



96 markers for a terminal block width of 5 mm

Technical data

General data

Can be printed with:	BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
Number of individual labels	96
Number of individual labels per strip	12
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 °C
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for labeling terminal block brands from other companies	white	UC3-TM 5	0822369	10
UniCard, for labeling terminal block brands from other companies, labeled acc. to customer specifications ¹⁾	white	UC3-TM 5 CUS	0826888	1

Accessories

Magazine, for CMS-P1-PLOTTER	P1 UC-MAG 1	5146079	1
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80 markers for a terminal block width of 6 mm



64 markers for a terminal block width of 8 mm

Technical data**Technical data**

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

80
10
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

64
8
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Ordering data**Ordering data**

Type	Order No.	Pcs. / Pkt.
UC3-TM 6	0822385	10
UC3-TM 6 CUS	0826889	1

Type	Order No.	Pcs. / Pkt.
UC3-TM 8	0822408	10
UC3-TM 8 CUS	0826890	1

Accessories**Accessories**

P1 UC-MAG 1	5146079	1
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P1 UC-MAG 1	5146079	1
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Marking and labeling - MARKING system

Terminal marking

UniCard marking for terminal blocks from other manufacturers with a tall marker groove

- The UCT1-TM ... UniCard labeling range includes markers for Weidmüller, Conta-Clip, and Klemsan terminal blocks
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

An overview of markable terminal blocks can be found on page 140 onwards.

¹⁾ For ordering example, see page 359.



72 markers for a terminal block width of 5 mm

60 markers for a terminal block width of 6 mm

General data

Can be printed with:

Number of individual labels

THERMOMARK CARD PLUS • THERMOMARK CARD •
BLUEMARK CLED • BLUEMARK LED

Number of individual labels per strip

72

Material

12

Inflammability class according to UL 94

PC

Temperature range

V0

Wipe resistance

-40 ... 120

Components

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

THERMOMARK CARD PLUS • THERMOMARK CARD •
BLUEMARK CLED • BLUEMARK LED

60

10

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Description Color

UniCard, for labeling terminal block brands from other companies	
white	UCT1-TM 5
red	UCT1-TM 5 RD
orange	UCT1-TM 5 OG
yellow	UCT1-TM 5 YE
blue	UCT1-TM 5 BU
green	UCT1-TM 5 GN

Ordering data

Type	Order No.	Pcs. / Pkt.
UCT1-TM 5	0829482	10
UCT1-TM 5 RD	0829226	10
UCT1-TM 5 OG	0829227	10
UCT1-TM 5 YE	0829228	10
UCT1-TM 5 BU	0829229	10
UCT1-TM 5 GN	0829230	10

Ordering data

Type	Order No.	Pcs. / Pkt.
UCT1-TM 6	0829483	10
UCT1-TM 6 RD	0829232	10
UCT1-TM 6 OG	0829233	10
UCT1-TM 6 YE	0829234	10
UCT1-TM 6 BU	0829235	10
UCT1-TM 6 GN	0829236	10

Accessories

THERMOMARK CARD-UCT-MAG1	5146480	1
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Accessories

THERMOMARK CARD-UCT-MAG1	5146480	1
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Magazine, for THERMOMARK CARD ...

for accommodating: UCT-TM ..., UCT1-TM ..., UCT5-TM ..., UCT-EM (5X10), UCT-EM (6X10)

UniCard marking for terminal blocks from other manufacturers with a flat marker groove

- The UCT1-TMF ... UniCard marking range includes markers for Weidmüller, Wago, ABB (entrelec), Conta-Clip, and Klemsan terminal blocks
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

An overview of markable terminal blocks can be found on page 140 onwards.

¹⁾ For ordering example, see page 359.



72 markers for a terminal block width of 5 mm



60 markers for a terminal block width of 6 mm

General data

Can be printed with:

Number of individual labels

Technical data

Technical data

THERMOMARK CARD PLUS • THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED

THERMOMARK CARD PLUS • THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED

72

60

12

10

PC

PC

V0

V0

Inflammability class according to UL 94

-40 ... 120

-40 ... 120

Temperature range

DIN EN 61010-1 (VDE 0411-1)

DIN EN 61010-1 (VDE 0411-1)

Wipe resistance

free from silicone and halogen

free from silicone and halogen

Components

Ordering data

Ordering data

Description Color

Type

Order No.

Pcs. / Pkt.

Type

Order No.

Pcs. / Pkt.

UniCard, for labeling terminal block brands from other companies

white	UCT1-TMF 5	0829237	10	UCT1-TMF 6	0829243	10
red	UCT1-TMF 5 RD	0829238	10	UCT1-TMF 6 RD	0829244	10
orange	UCT1-TMF 5 OG	0829239	10	UCT1-TMF 6 OG	0829245	10
yellow	UCT1-TMF 5 YE	0829240	10	UCT1-TMF 6 YE	0829246	10
blue	UCT1-TMF 5 BU	0829241	10	UCT1-TMF 6 BU	0829247	10
green	UCT1-TMF 5 GN	0829242	10	UCT1-TMF 6 GN	0829248	10

UniCard, for labeling terminal block brands from other companies, labeled acc. to customer specifications¹⁾

white	UCT1-TMF 5 CUS	0829718	1	UCT1-TMF 6 CUS	0829724	1
red	UCT1-TMF 5 RD CUS	0829719	1	UCT1-TMF 6 RD CUS	0829725	1
orange	UCT1-TMF 5 OG CUS	0829720	1	UCT1-TMF 6 OG CUS	0829726	1
yellow	UCT1-TMF 5 YE CUS	0829721	1	UCT1-TMF 6 YE CUS	0829727	1
blue	UCT1-TMF 5 BU CUS	0829722	1	UCT1-TMF 6 BU CUS	0829728	1
green	UCT1-TMF 5 GN CUS	0829723	1	UCT1-TMF 6 GN CUS	0829729	1

Plastic magazine, for THERMOMARK CARD ..., for accommodating: UCT1-TMF...

Accessories		
THERMOMARK CARD-UCT-MAG4	5146614	1

Accessories		
THERMOMARK CARD-UCT-MAG4	5146614	1

Terminal marking

UniCard marking for terminal blocks from other manufacturers with a tall marker groove



Can be printed with:



Thermal transfer for sheets and cards



UV LED technology



72 markers for a terminal block width of 5 to 6 mm

- The UCT2-TM 5/6 UniCard markers are suitable for Wago terminal blocks
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and precisely using the THERMOMARK CARD and BLUEMARK CLED
- The multi-section marking strips are easy to fit and can be easily separated if required
- The markers support multiline labeling
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

An overview of markable terminal blocks can be found on page 140 onwards.

1) For ordering example, see page 359.

General data

Can be printed with:

Number of individual labels

Number of individual labels per strip

Material

Inflammability class according to UL 94

Temperature range

Wipe resistance

Components

Technical data

THERMOMARK CARD PLUS • THERMOMARK CARD •
BLUEMARK CLED • BLUEMARK LED

72

12

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
UniCard, for labeling terminal block brands from other companies	white	UCT2-TM 5/6	0829249	10
UniCard, for labeling terminal block brands from other companies, labeled acc. to customer specifications ¹⁾	white	UCT2-TM 5/6 CUS	0829250	1

Accessories

Plastic magazine, for THERMOMARK CARD ..., for accommodating: UCT2-TM ...	THERMOMARK CARD-UCT-MAG5	5146615	1
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UniCard marking for terminal blocks from other manufacturers with a tall marker groove

- The UCT3-TM ... UniCard labeling range includes markers for Wieland and Legrand terminal blocks
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

An overview of markable terminal blocks can be found on page 140 onwards.

¹⁾ For ordering example, see page 359.



72 markers for a terminal block width of 5 mm

60 markers for a terminal block width of 6 mm

General data

Can be printed with:

Number of individual labels

Number of individual labels per strip

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

Technical data

THERMOMARK CARD PLUS • THERMOMARK CARD • BLUemark CLED • BLUemark LED

72

12

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Technical data

THERMOMARK CARD PLUS • THERMOMARK CARD • BLUemark CLED • BLUemark LED

60

10

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Ordering data

Description	Color
UniCard, for labeling terminal block brands from other companies	white
UniCard, for labeling terminal block brands from other companies, labeled acc. to customer specifications ¹⁾	white

Type	Order No.	Pcs. / Pkt.
UCT3-TM 5	0829251	10
UCT3-TM 5 CUS	0829955	1

Type	Order No.	Pcs. / Pkt.
UCT3-TM 6	0829252	10
UCT3-TM 6 CUS	0829956	1

Accessories

THERMOMARK CARD-UCT-MAG6	5146616	1
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THERMOMARK CARD-UCT-MAG6	5146616	1
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Magazine, for THERMOMARK CARD ..., for accommodating:
UCT3-TM ...

Marking and labeling - MARKING system

Terminal marking

UniCard marking for terminal blocks from other manufacturers with a tall marker groove



Can be printed with:



Thermal transfer for sheets and cards



UV LED technology



66 markers for a terminal block width of 5 mm

- The UCT5-TM ... UniCard labeling range includes markers for Cabur terminal blocks
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and precisely using the THERMOMARK CARD and BLUEMARK CLED
- The multi-section marking strips are easy to fit and can be easily separated if required
- The markers support multiline labeling
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

An overview of markable terminal blocks can be found on page 140 onwards.

¹⁾ For ordering example, see page 359.

General data

Can be printed with:

Number of individual labels

Number of individual labels per strip

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

THERMOMARK CARD PLUS • THERMOMARK CARD •
BLUEMARK CLED • BLUEMARK LED

66

11

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Technical data

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for labeling terminal block brands from other companies	white	UCT5-TM 5	0828750	10
UniCard, for labeling terminal block brands from other companies, labeled acc. to customer specifications ¹⁾	white	UCT5-TM 5 CUS	0829742	1

Accessories

Magazine, for THERMOMARK CARD ... for accommodating: UCT-TM ..., UCT1-TM ..., UCT5-TM ..., UCT-EM (5X10), UCT-EM (6X10)	THERMOMARK CARD-UCT-MAG1	5146480	1
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PRINTED
FOR YOU

54 markers for a terminal block width of 6 mm

Technical dataTHERMOMARK CARD PLUS • THERMOMARK CARD •
BLUEMARK CLED • BLUEMARK LED

54

9

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
UCT5-TM 6	0828752	10
UCT5-TM 6 CUS	0829743	1

Accessories

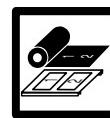
THERMOMARK CARD-UCT-MAG1	5146480	1
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Terminal marking

UniCard marking for terminal blocks from other manufacturers with a flat marker groove



Can be printed with:



Thermal transfer for sheets
and cards



UV LED technology



72 markers for a terminal block width of 5.2 mm

- The UniCard UCT6M ... labeling range includes markers for ABB terminal blocks
- The markers, which are supplied in uniform sheets, can be marked quickly, precisely, and easily
- The multi-section marking strips are easy to fit and can be easily separated if required
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

An overview of markable terminal blocks can be found on page 140 onwards.

¹⁾ For ordering example, see page 359.

General data

Can be printed with:

Number of individual labels

Number of individual labels per strip

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

THERMOMARK CARD PLUS • THERMOMARK CARD •
BLUemark CLED • BLUemark LED

72

12

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Free from silicone, halogen and cadmium

Technical data

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
UniCard, for labeling terminal block brands from other companies	white	UCT6M-TM 5	0830756	10
UniCard, for labeling terminal block brands from other companies, labeled acc. to customer specifications ¹⁾	white	UCT6M-TM 5 CUS	0830762	1

Accessories

Magazine, for THERMOMARK CARD ... for accommodating: UCT-TM ..., UCT1-TM ..., UCT5-TM ..., UCT-EM (5X10), UCT-EM (6X10)	THERMOMARK CARD-UCT-MAG1	5146480	1
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N


**60 markers for a terminal block width of
6.2 mm**



**42 markers for a terminal block width of
8.2 mm**

Technical data

THERMOMARK CARD PLUS • THERMOMARK CARD •
BLUEMARK CLED • BLUEMARK LED
60
10
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen and cadmium

Technical data

THERMOMARK CARD PLUS • THERMOMARK CARD •
BLUEMARK CLED • BLUEMARK LED
42
7
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen and cadmium

Ordering data

Type	Order No.	Pcs. / Pkt.
UCT6M-TM 6	0830757	10
UCT6M-TM 6 CUS	0830763	1

Ordering data

Type	Order No.	Pcs. / Pkt.
UCT6M-TM 8	0830758	10
UCT6M-TM 8 CUS	0830764	1

Accessories

THERMOMARK CARD-UCT-MAG1	5146480	1
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Accessories

THERMOMARK CARD-UCT-MAG1	5146480	1
--------------------------	---------	---

Terminal marking

UniCard marking for terminal blocks from other manufacturers with a tall marker groove



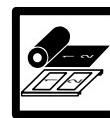
- The UniCard UCT6R-TM ... labeling range includes markers for ABB terminal blocks
- The markers, which are supplied in uniform sheets, can be marked quickly, precisely, and easily
- The multi-section marking strips are easy to fit and can be easily separated if required
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

An overview of markable terminal blocks can be found on page 140 onwards.

¹⁾ For ordering example, see page 359.

Can be printed with:



Thermal transfer for sheets and cards



UV LED technology



72 markers for a terminal block width of 5.2 mm

Technical data

General data

Can be printed with:

Number of individual labels	
Number of individual labels per strip	
Material	PC
Inflammability class according to UL 94	V0
Temperature range	-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Free from silicone, halogen and cadmium

THERMOMARK CARD PLUS • THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED

72
12
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen and cadmium

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
UniCard, for labeling terminal block brands from other companies	white	UCT6R-TM 5	0830753	10
UniCard, for labeling terminal block brands from other companies, labeled acc. to customer specifications ¹⁾	white	UCT6R-TM 5 CUS	0830759	1
Accessories				
Magazine, for THERMOMARK CARD ... for accommodating: UCT-TM ..., UCT1-TM ..., UCT5-TM ..., UCT-EM (5X10), UCT-EM (6X10)		THERMOMARK CARD-UCT-MAG1	5146480	1


N


**60 markers for a terminal block width of
6.2 mm**



**42 markers for a terminal block width of
8.2 mm**

Technical data

THERMOMARK CARD PLUS • THERMOMARK CARD •
BLUEMARK CLED • BLUEMARK LED
60
10
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen and cadmium

Technical data

THERMOMARK CARD PLUS • THERMOMARK CARD •
BLUEMARK CLED • BLUEMARK LED
42
7
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen and cadmium

Ordering data

Type	Order No.	Pcs. / Pkt.
UCT6R-TM 6	0830754	10
UCT6R-TM 6 CUS	0830760	1

Ordering data

Type	Order No.	Pcs. / Pkt.
UCT6R-TM 8	0830755	10
UCT6R-TM 8 CUS	0830761	1

Accessories

THERMOMARK CARD-UCT-MAG1	5146480	1
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Accessories

THERMOMARK CARD-UCT-MAG1	5146480	1
--------------------------	---------	---

Marking and labeling - MARKING system

Terminal marking

UniSheet marking for terminal blocks
from other manufacturers

Can be printed with:



Thermal transfer for sheets
and cards



12 strips with a strip width of 104 mm

- The US2-TM 100 UniSheet markers are suitable for Wago terminal blocks
- The markers, which are supplied as uniform cards, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The perforated marking strips are easy to separate and can be easily fitted
- The cards provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniSheet markers in accordance with your requirements

Notes:

An overview of markable terminal blocks can be found on page 140 onwards.

¹⁾ For ordering example, see page 359.

General data

Can be printed with:
Number of individual labels
Number of individual labels per strip
Material
Inflammability class according to UL 94
Temperature range
Wipe resistance
Components

THERMOMARK CARD PLUS • THERMOMARK CARD
12
1
PVC
V0
-30 ... 70
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Technical data

Description

UniSheet, for labeling terminal blocks from other manufacturers with a Wago TopJob S terminal block groove, strip length of 104 mm

Color

white

UniSheet, for labeling terminal blocks from other manufacturers with a Wago TopJob S terminal block groove, labeled acc. to customer specifications, strip length of 104 mm¹⁾

white

Type

US2-TM 100

Order No.

0829268

Pcs./ Pkt.

10

US2-TM 100 CUS

0829950

1

Accessories

Magazine, for THERMOMARK CARD..., for accommodating all US-... materials

THERMOMARK CARD-US-MAG1

5146451

1

Marker strips, continuous, for terminal blocks from other manufacturers

- The TMT2 . . . markers are suitable for Wago terminal blocks
- The marker strips are automatically perforated and cut to the desired length
- The markers in the form of continuous rolls can be printed quickly, easily, and precisely with the THERMOMARK ROLL... printers

Notes:

An overview of markable terminal blocks can be found on page 140 onwards.

¹⁾ For ordering example, see page 359.

Can be printed with:



Thermal transfer for rolls



Marker with strip height of 11 mm, continuous

General data

Can be printed with:

Number of individual labels	1
Number of individual labels per strip	1
Material	Polyester
Inflammability class according to UL 94	VO
Temperature range	-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen
Components	

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1

1

1

Polyester

VO

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniSheet, for marking terminal blocks from other manufacturers with a Wago TopJob S terminal block groove, strip height of 11 mm, continuous	white	TMT2 (EX11)R	0802683	1
UniSheet, for marking terminal blocks from other manufacturers with a Wago TopJob S terminal block groove, labeled according to customer specifications, strip height of 11 mm, continuous ¹⁾	white	TMT2 (EX11)R CUS	0830811	1

Marking and labeling - MARKING system

Terminal marking

Terminal marking for Weidmüller



	UC1U-TM 5	UC1-TM 5	UC1-TM 6	UC1-TM 8	UCT1-TM 5	UCT1-TM 6	UC1-TMF 4	UC1-TMF 5	UC1-TMF 6	UC1-TMF 8	UCT1-TMF 5	UCT1-TMF 6
UniCard, white	0821302	0821784	0821247	0821739	0829482	0829483	0821360	0821425	0821483	0821548	0829237	0829243
Pitch	5	5	6	8	5	6	4	5	6	8	5	6
Screw connection terminal blocks												
AKZ 1,5/AKZ 2,5	5											
AKZ 4/AKE 4	6											
DLD(A)2,5.../MAK 2,5/VLI 2,5	6											
SAK 10/16/35/95// EK 10/16/35	5											
SAK 2,5/4//EK 2,5/4	6											
SAKS.../SAK 6//EK 6	8											
WDK 2,5/4...	5											
WDL 2,5...	6											
WDT...	5											
WDU (WPE) 1,5/2,5...	5											
WDU (WPE) 4...	6											
WDU (WPE) 6-240...	8											
WF...	8											
WFF...	6											
WNT 2,5	5											
WNT 4	6											
WNT 6-WNT 70N	8											
WSI 4	6											
WSI 6	6											
WTL 4/6	6											
WTR 2,5...	5											
WTR 4...	6											

 The pitch of the terminal block corresponds to the width of the label

 The pitch of the terminal block is greater than the width of the label

	UC1U-TM 5	UC1-TM 5	UC1-TM 6	UC1-TM 8	UCT1-TM 5	UCT1-TM 6	UC1-TMF 4	UC1-TMF 5	UC1-TMF 6	UC1-TMF 8	UCT1-TMF 5	UCT1-TMF 6
UniCard, white	0821302	0821784	0821247	0821739	0829482	0829483	0821360	0821425	0821483	0821548	0829237	0829243
Pitch	5	5	6	8	5	6	4	5	6	8	5	6
Spring-cage connection terminal blocks												
ZDK 2,5 (PE).../ZDLD 2,5.../ZMAK 2,5	5											
ZDK 4 (PE)...	6											
ZDK 6/S	8											
ZDL 2,5/S.../ZDL 4/S...	5											
ZDT 2,5 (PE).../ZT (PE) 2,5.../ZP 2,5...	5											
ZDU (ZPE) 10...-ZDU (ZPE) 35/ZEI 16...	5											
ZDU (ZPE) 2,5...	5											
ZDU (ZPE) 4...	6											
ZDU (ZPE) 6.../ZEI 6	8											
ZNT 2,5/10/16/35...	5											
ZNT 4	6											
ZNT 6	8											
ZPV 1,5.../ZIA 1,5.../ZVL 1,5...	5											
ZSI 2,5.../ZSI 6...	5											
ZSI 6-2/FC	6											
ZT (PE) 4.../ZP 4...	6											
ZTD 6/ZTL 6	6											
ZTR 2,5.../ZDTR 2,5.../ZDL 2,5...	5											
IDC terminal blocks												
IDU (IPE 1,5) N.../ITR 1,5 N.../IDK 1,5 N(PE)...	5											
IDU (IPE) 2,5 N.../ITR 2,5 N...	6											
IT 1,5.../IEK 1,5 N (PE).../IAK 1,5 N.../IIK 1,5 N...	5											
Push-in connection terminal blocks												
PDL 4...	5											
PDU (PPE) 2,5/4.../PDK 2,5/4 (PE)...	5											
PDU (PPE) 6/10.../PDU (PPE) 16.../PEI 16...	8											
PNT 2,5/4	5											
PNT 6/10/16	8											

Marking and labeling - MARKING system

Terminal marking

Terminal marking for Wieland



		UC3-TM 5	UC3-TM 6	UC3-TM 8	UCT3-TM 5	UCT3-TM 6
UniCard, white	Pitch	0822369	0822385	0822408	0829251	0829252
Screw connection terminal blocks						
9700 A/5...	5					
9700 A/6...	6					
9700 A/8...	8					
9700 A/10...	10					
9700 A/12...	12					
9700 A/16...	16					
9700 A/6 ETK...	6					
9700 A/8 ETK...	8					
9700 A/10 ETK...	10					
WK(M) 2,5...	5					
WK 4..., WKI 4..., WKM 4...	6					
WK 6...	8					
WKN 10..., WKI 10...	10					
WKN 16..., WKI 16...	12					
WKN 35..., WKI 35...	16					
WKN 70...	24					
WKN 70...	28					
9785 U/..., 9786 U/...	12					

The pitch of the terminal block corresponds to the width of the label

The pitch of the terminal block is greater than the width of the label

	UC-TM 4	UC-TMF 4	UCT-TM 4	UCT-TMF 4	UC3-TM 5	UC3-TM 6	UC3-TM 8	UCT3-TM 5	UCT3-TM 6	US-TMF 100
UniCard, white	0818111	0818166	0828732	0828742	0822369	0822385	0822408	0829251	0829252	0829260
Pitch	4	4	4	4	5	6	8	5	6	
Spring-cage connection terminal blocks										
WKF 1,5...	4									
WKF 1,5 KOI..., WKF 1,5 KOA...	5									
WK(I)F 2,5..., WKFN 2,5...	5									
WKF 4..., WKFN 4...	6									
WKF 6...	8									
WKF 10...	10									
WK(I)F 16...	12									
WKF 35...	16									
Fast connection terminal blocks										
WKC 1...	5									
WKC 2,5...	6									
WKF 16...WKC	12									

Marking and labeling - MARKING system

Terminal marking

Terminal marking for CONTA-CLIP

	UC1-TM 5	UC1-TM 6	UC1-TM 8	UCT1-TM 5	UCT1-TM 6	UC1-TMF 4	UC1-TMF 5	UC1-TMF 6	UC1-TMF 8	UCT1-TMF 5	UCT1-TMF 6	
UniCard, white	0821784	0821247	0821739	0829482	0829483	0821360	0821425	0821483	0821548	0829237	0829243	
	Pitch	5	6	8	5	6	4	5	6	8	5	6
Spring-cage connection terminal blocks												
Z(S)RK 2,5..., ZSL 2,5...	5											
ZRK 4..., ZSL 4...	6											
ZRK (ZSL) 6..., ZRK (ZSL) 10..., ZRK (ZSL) 16...	8											
ZRKD 2,5..., ZSLD 2,5...	5											
ZIKD 2,5..., ZVMAK 2,5...	5											
ZTRK 2,5...	5											
ZIZA 1,5...	5											
ZS...	5											
Push-in connection terminal blocks												
FRK 1,5.../FSL 1,5...	4											
FRK 2,5.../FSL 2,5...	5											
FRK 4.../FSL 2,5...	6											
FRKD 2,5.../FSLD 2,5...	5											
FDLIS 2,5...	5											
FTRK 2,5...	5											
HSK...	8											

The pitch of the terminal block corresponds to the width of the label

The pitch of the terminal block is greater than the width of the label





	UC1-TM 5	UC1-TM 6	UC1-TM 8	UCT1-TM 5	UCT1-TM 6	UC1-TMF 4	UC1-TMF 5	UC1-TMF 6	UC1-TMF 8	UCT1-TMF 5	UCT1-TMF 6
UniCard, white	0821784	0821247	0821739	0829482	0829483	0821360	0821425	0821483	0821548	0829237	0829243
Pitch	5	6	8	5	6	4	5	6	8	5	6
Screw connection terminal blocks											
RK 1,5-4...	6										
RK 2,5...	5	■	■	■	■	■	■	■	■	■	■
RK 2,5-4...	6	■	■	■	■	■	■	■	■	■	■
RK 6-10.../16.../35...	8	■	■	■	■	■	■	■	■	■	■
RK 50...-RK 240...	8	■	■	■	■	■	■	■	■	■	■
SL...	5	■	■	■	■	■	■	■	■	■	■
RKD 2,5...	5										
RKD 4...	6										
DLI 2,5..., VMAK 2,5...	6										
IK (D) 2,5...	5										
TRK 1,5...	5	■	■	■	■	■	■	■	■	■	■
TK.../STK...	8	■	■	■	■	■	■	■	■	■	■
PTK...	8	■	■	■	■	■	■	■	■	■	■
SIK 10...	8	■	■	■	■	■	■	■	■	■	■
STK...	6										
SK...	8										
TSK 2,5	5	■	■	■	■	■	■	■	■	■	■
FF.../SF...	6	■	■	■	■	■	■	■	■	■	■
DLIS.../DLI...	6										
NT...	6	■	■	■	■	■	■	■	■	■	■
RKA 2,5...	5										
RKA 4...	6										
RKA 10...	8										
RKB 4...	5										
KBL 2,5...	5	■	■	■	■	■	■	■	■	■	■
KBL 2,5-4...	6	■	■	■	■	■	■	■	■	■	■
KBL 6-10...	8	■	■	■	■	■	■	■	■	■	■

Marking and labeling - MARKING system

Terminal marking

Terminal marking for ABB (entrelec)

		UCT6M-TM 5	UCT6M-TM 6	UCT6M-TM 8
UniCard, white		0830756	0830757	0830758
	Pitch	5	6	8
SNK series				
ZS4...	5.2	■		
ZS6...	6	■■	■	
ZS10...	8	■■■	■	■
ZS16...	10	■■■■		■■■■
ZS35...	16	■■■■■		■■■■■
ZS70...	22	■■■■■■		■■■■■■
ZS95...	26	■■■■■■■		■■■■■■■
ZS4-S-R...	6	■■	■■■	
ZS4-S-R3...	8	■■■■	■■■■	■■■■
ZS4-S-T2-R...	6	■■■■■	■■■■■	
ZS4-SP-R...	6	■■■■■■	■■■■■■	
ZS4-SP-T2-R...	6	■■■■■■■	■■■■■■■	
ZS4-SF...	6	■■■■■■■■	■■■■■■■■	
ZS4-SF1...	8	■■■■■■■■■	■■■■■■■■■	■■■■■■■■■
BAM3	10	■■■■■■■■■■	■■■■■■■■■■	■■■■■■■■■■
CS-R1	3	■■■■■■■■■■■		■■■■■■■■■■■
TC5...	5.2	■■■■■■■■■■■		
PG5...	5.2	■■■■■■■■■■■		

 The pitch of the terminal block corresponds to the width of the label  The pitch of the terminal block is greater than the width of the label

		UC2F-TM 5 UCT6R-TM 5	UC2F-TM 6 UCT6R-TM 6	UC2F-TM 8 UCT6R-TM 8	UC1-TMF 4	UC1-TMF 5	UC1-TMF 6	
UniCard, white		0822187 0830753	0822194 0830754	0822204 0830755	0821360	0821425	0821483	
		Pitch	5	6	8	4	5	6
Screw connection terminal blocks								
M(A) 2,5/5...	5							
M 4/6...	6							
M 6/8	8							
M 10/10, M 16/12, M 35/16, M 70/22, M 95/22	8							
D 150/31..., D 240/36...	8							
D 4/6 NTLP	6							
MA 2,5/5.NT	5							
M 4/6.NT	6							
M 6/8.NT	8							
M 10/10.NT, M 16/12.NT, M 35/16.	8							
Spring-cage connection terminal blocks								
D 1,5/4... 2 L, D 1,5/4.../4 L	4							
D 2,5/5... 2 L, D 2,5/5... 3 L, D 2,5/5... 4 L	5							
D 4/6... 2 L, D 4/6... 3 L, D 4/6... 4 L	6							
D 6/8... 2 L	8							
D 10/10... 2 L, D 16/12... 2 L, D 35/16... 2 L	8							
D 2,5/5.NT.L	5							
D 4/6.NT.L	6							
D 6/8.NLL	8							
D 10/10.NZ.L, D 16/12.NT.L, D 35/16NT.L	8							
D 2,5/5.N...	5							
IDC terminal blocks								
D 1,5... ADO	5							
D 1,5/6... ADO	6							
D 2,5/8... ADO, D 4/8... ADO	8							
D 1,5/6.NT.ADO	6							
D 2,5/8.NT.ADO	8							
D 2,5/5... ADO	5							
D 4/6... ADO	6							
D 6/8... ADO, D 6/8.ADO3	8							

Marking and labeling - MARKING system

Terminal marking

Terminal marking for Wago



	UC2-TM 4	UC2-TM 5	UC2-TM 6	UC2-TM 8	UCT2-TM 5/6	UC1-TMF 4	UC1-TMF 5	UC1-TMF 6	UC1-TMF 8	US2-TM 100/TMT 2
UniCard, white	0821713	0821690	0821674	0821755	0829249	0821360	0821425	0821483	0821548	0829268/0802683
Pitch	4	5	6	8	5/6	4	5	6	8	
Spring-cage connection terminal blocks										
2001...	4									
2002..., 2003...	5									
2004..., 2005..., 2006...	6									
2010..., 2016...	8									
261..., 264...	6									
270...	5									
279...	4									
280...	5									
280-8...	5									
281...	6									
282..., 283..., 284..., 285...	8									
290...	5									
727...	6									
769...	5									
775..., 776..., 777...	6									
780...	5									
781...	6									
782..., 783..., 784..., 785...	8									
869..., 870..., 880...	5									

 The pitch of the terminal block corresponds to the width of the label

 The pitch of the terminal block is greater than the width of the label

Terminal marking for Cabur



	UCT5-TM 5	UCT5-TM 6
UniCard, white	0828750	0828752
Pitch	5	6

Screw connection terminal blocks

CBD.2	5.5	
CBD.4	6.5	
CBD.6	8	
CBD.10	10	
CBD.16	12	
CBD.35	16	
CBD.50	18	
CBD.70	20.5	
AFO.2/1+2, AFO.2/2+2	6.5	
CBC.2	5	
CBC.4	6	
CBC.6	8	
CBC.16	12	
CBC.35	16	
GPA.70	20.5	
GPA.95	26	
GPA.150	31	
GPA.240	37	
TE.6	8	
TE.10	10	
TE.16	12	
TE.35	16	
TED.4	6.5	
TEO.2	5.5	
TEO.4	6.5	
TEC.6	8	
TEC.10	10	
TEC.16	12	
TEC.35	16	
TEC.70	20.5	
CBE.2, CBR.2, CVF.2	5	
CVF.4, DAS.4	6	
DBC.2	5	

The pitch of the terminal block corresponds to the width of the label

The pitch of the terminal block is greater than the width of the label



UCT5-TM 5	UCT5-TM 6
UniCard, white	0828750
Pitch	5
6	

Screw connection terminal blocks

DSFA.4, DSS.4	6	
EDM.2, TC/DIN, TC/PO	5.5	
EDM.4, FDP.2, FFS.4, FVS.4	6.5	
EDM.6	8	
EDM.10, SFR.6	10	
EDM.16, FPC.10, FPL.10	12	
EDM.25	16	
EDM.35	18.5	
EDM.70	21	
MPFA.4, MPS.4, RP.4	6	
MPS.2/SV, MPS.2/SW, MPS.2/SWP	5.5	
PDF.2, SCB.4	6.5	
RN.2, TR.2	5	
TR.4	7.3	
SCB.6, SFO.4, SFR.4, SV.6	8	
SV.2	5.5	
SV.4	7	
SV.10	10.5	
TDE.2, TLD.2, TLE.2, TLS.2	6.2	
VPC.2, VPD.2	5.08	

Spring-cage connection terminal blocks

HCD.1	5.08	
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Push-in connection terminal blocks

NCS, NCV	6.2	
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Marking and labeling - MARKING system

Terminal marking

Terminal marking for Klemsan



	UC1U-TM 5	UC1-TM 5	UC1-TM 6	UC1-TM 8	UCT1-TM 5	UCT1-TM 6	UC1-TMF 4	UC1-TMF 5	UC1-TMF 6	UC1-TMF 8	UCT1-TMF 5	UCT1-TMF 6
UniCard, white	0821302	0821784	0821247	0821739	0829482	0829483	0821360	0821425	0821483	0821548	0829237	0829243
Pitch	5	5	6	8	5	6	4	5	6	8	5	6

Screw connection terminal blocks

AVK 2,5/PEK 2,5 K/WGT 2,5	5	5	5	5	5	5	5	5	5	5	5	5
AVK 4.../AVK 2,5/4T/PEK 2,5/PEK 4/WGT 4	6	6	6	6	6	6	6	6	6	6	6	6
AVK 6-240/ PEK 6-35	8	8	8	8	8	8	8	8	8	8	8	8
AVK 6/10T-16/35T// WGT, 6/WGT 10	8	8	8	8	8	8	8	8	8	8	8	8
PIK 2,5...	5	5	5	5	5	5	5	5	5	5	5	5
PIK 4...	6	6	6	6	6	6	6	6	6	6	6	6
PIK 3...	6	6	6	6	6	6	6	6	6	6	6	6
ASK 2	8	8	8	8	8	8	8	8	8	8	8	8
ASK 3	6	6	6	6	6	6	6	6	6	6	6	6
ASK 4/AVK 4 FS	8	8	8	8	8	8	8	8	8	8	8	8
ASK 4S/ASK 4 LD	6	6	6	6	6	6	6	6	6	6	6	6
WGO...	8	8	8	8	8	8	8	8	8	8	8	8
AYK 4...	6	6	6	6	6	6	6	6	6	6	6	6
AYK 10...	8	8	8	8	8	8	8	8	8	8	8	8
MVK 2,5 (T)	5	5	5	5	5	5	5	5	5	5	5	5
MVK 4 (T)	6	6	6	6	6	6	6	6	6	6	6	6

Spring-cage connection terminal blocks

YBK 2,5 (T)	5	5	5	5	5	5	5	5	5	5	5	5
YBK 4 (T)	6	6	6	6	6	6	6	6	6	6	6	6
YBK 6 (T)	8	8	8	8	8	8	8	8	8	8	8	8
YBK 10 (T)	8	8	8	8	8	8	8	8	8	8	8	8
MYK 2,5 (T).../MYP-PK 2,5...	5	5	5	5	5	5	5	5	5	5	5	5
YBK 2,5 F.../YBK 3...	5	5	5	5	5	5	5	5	5	5	5	5
YBK 4...	6	6	6	6	6	6	6	6	6	6	6	6
YBK S.../YBK I...	8	8	8	8	8	8	8	8	8	8	8	8
YBK 2,5 A.../YBK 2,5 E.../YB K 2,5C...	5	5	5	5	5	5	5	5	5	5	5	5
PCY 2,5...	5	5	5	5	5	5	5	5	5	5	5	5

The pitch of the terminal block corresponds to the width of the label

The pitch of the terminal block is greater than the width of the label

Terminal marking for Legrand



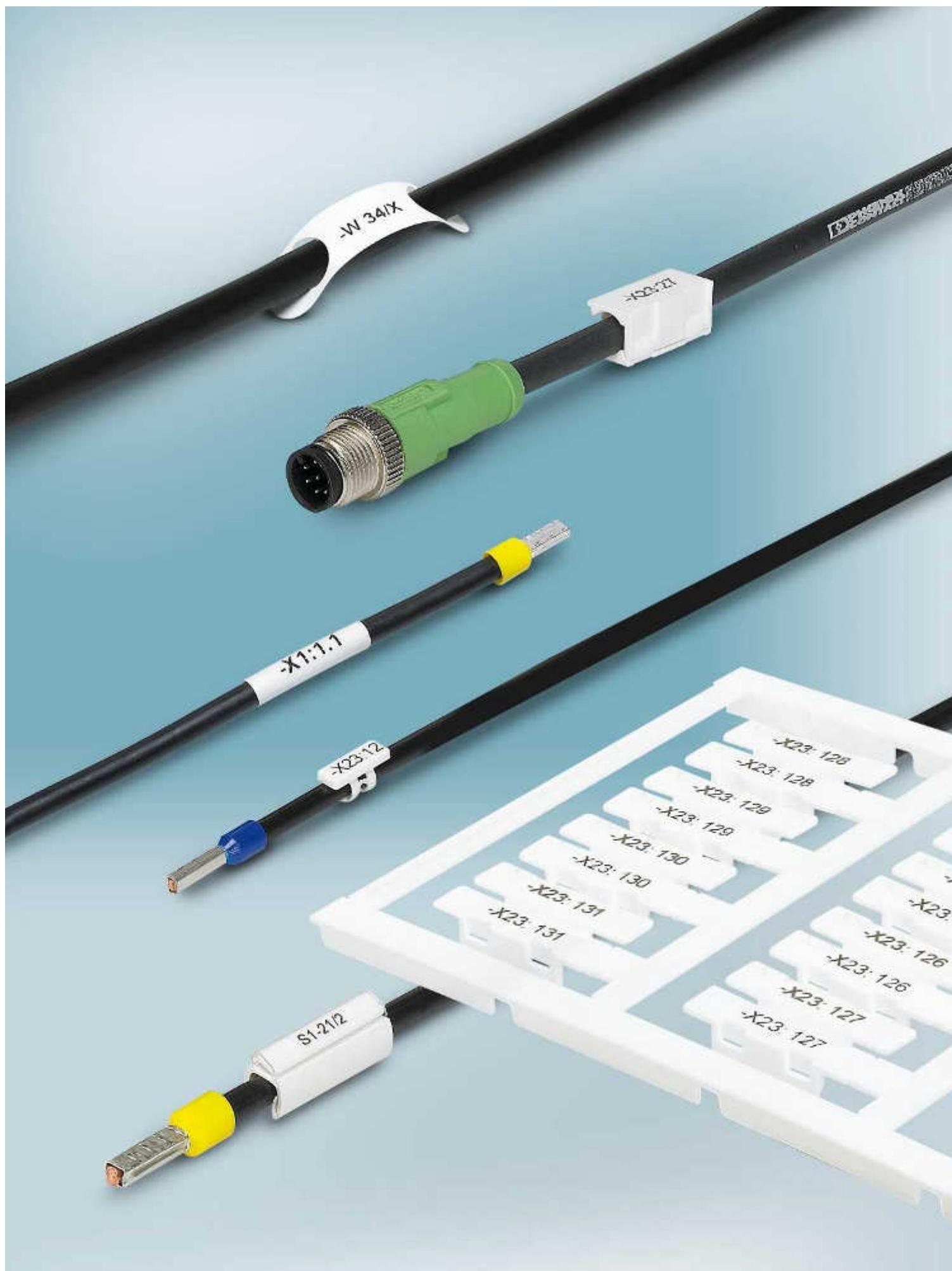
		UC3-TM 5	UC3-TM 6	UC3-TM 8
UniCard, white	Pitch	0822369	0822385	0822408

Screw connection terminal blocks, Viking 2

39060	5			
39061-39068	6			
39070	6			
39077	5			
39078, 39080, 39082	6			
39084, 39085	6			
39300	5			
39301-39305	6			
39307	6			
39370	5			
39371, 39372, 39374	6			
39376, 39378	6			

Spring-cage connection terminal blocks, Viking 3

39601, 39602	5			
39604	6			
39605	8			
39606, 39607	8			
39608	6			
39627	5			
39628, 39636	6			
39611, 39612	5			
39614	6			
39615	8			
39616, 39617	8			
39618, 39646	6			
39621	5			
39624	6			
39625	8			
39626, 39629	8			
39622	5			
39630, 39666	6			



Conductor and cable marking - MARKING system

Clear and permanent marking of all conductors and cables considerably improves transparency in control cabinets and switchgear. It makes assembly and maintenance work easier and assists in rectifying faults.

Phoenix Contact conductor and cable markers provide the ideal marking option for any application. Just select an assembly method. The markers can be threaded on, clipped on, adhered in place or secured with cable binders.

Product range overview

Conductor and cable marking	154
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Overview of conductor markers and cable markers	156
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The right marking solution for every diameter

WMTB AL... aluminum conductor and cable marking	161
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UniCard UC-WM... and UCT-WM... conductor and cable marking

Clip-on and slide-on markers, for insertion into marking collars, for assembly with cable binders, for threading	162
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UniSheet US-WM... conductor and cable marking

Markers for insertion into marking collars, for assembly with cable binders, adhesive markers for wrapping around	188
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WM... conductor and cable marking supplied in rolls

Adhesive markers for wrapping around or as flags	193
--	------------

WMS... shrink sleeves supplied in rolls

200

EMT and WMT... conductor and cable marking supplied in rolls

Markers for insertion into marking collars, for threading, for assembly with cable binders	208
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KMK... cable markers for assembly with cable binders

214

Cable markers for carrier assembly

Markers made of plastic and stainless steel	221
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PATG... and PATO... marking collars

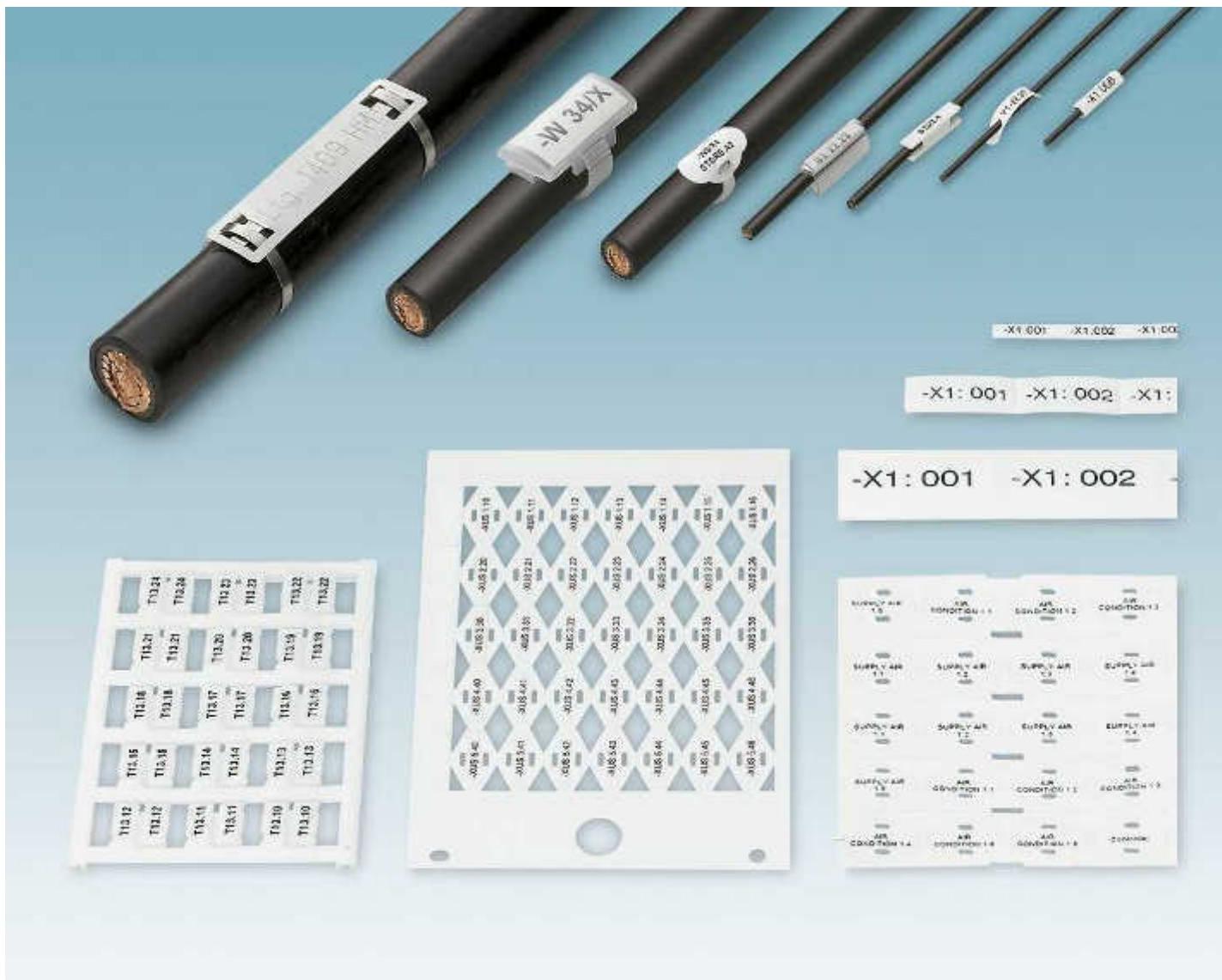
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Ordering example for labeling service - printed for you

359

Marking and labeling - MARKING system

Conductor and cable marking



Far from being a luxury, standard-compliant and permanent conductor markings are actually a mark of quality demanded by customers in respect of modern high-quality capital goods. Phoenix Contact conductor and cable marking systems provide ideal marking options for any user, whether they intend to thread, slide, clip or stick the markers on or attach them with cable binders.

Depending on the material, the following printers can be used for the individual labeling of conductor and cable markers:

- BLUEMARK CLED, high-speed printer with UV technology for labeling UniCard formats

- THERMOMARK CARD, thermal transfer printer for labeling UniCard and UniSheet formats
- THERMOMARK ROLL, thermal transfer printer for labeling material off the roll and continuous media
- THERMOMARK ROLL X1, thermal transfer printer for large quantities
- THERMOMARK W2, thermal transfer printer for double-sided labeling and perforation of continuous shrink sleeves
- CMS-P1-PLOTTER
- Commercially available desktop laser printers

The CLIP PROJECT software is available for easy and efficient production of markings. It generates the marking data directly from the circuit diagram and automatically sends the data to the relevant printers for further processing.

If no printers are available or your production facility is affected by capacity bottlenecks, you also have the option of using our labeling service. We will be happy to handle your printing orders, including any engraving or laser marking of stainless steel cable markers.



Conductor and cable marking can be optimally labeled with aluminum markers. The markers are quickly and easily printed with an optimum printing quality using the BLUEMARK CLED. They are easily attached using cable binders.



Clip-on conductor markers feature two non-detachable labeling areas that remain legible at all times. They can be clipped onto pre-wired conductors and cables manually.



Individual printed markers are threaded onto conductors or attached by means of cable binders. Various materials can be supplied as cards or on rolls.



The ferrules feature an insulating collar that supports labeling and are labeled prior to crimping. This combines two operations in one.



Conductors can be fitted with PATG and PATO marking collars. Marking is achieved by means of insert strips that support labeling.



Shrink sleeves are ideal for captive marking of cables and conductors. They are available prefabricated and in rolls.



Conductor markers can be fitted using cable binders almost regardless of conductor or cable diameter. The large marking area provides enough space for long labels.



Cable marker labels consist of a labeling field and a transparent foil that protects the labeling against abrasion and dirt. The labels are available in various shapes and sizes.



Plastic cable markers are suitable for both bundling and labeling conductors and cables. A screw cap protects the labeling against dirt and can be replaced at any time.

Marking and labeling - MARKING system

Conductor and cable marking

Overview of conductor and cable marking

Markers for marking with BLUEMARK...,
THERMOMARK... or plotters



Conductor diameter [mm]	Aluminum labels				Conductor clips				Ferrules (dimensions in mm ²)										
	WMTB-AL (29X8)	WMTB-AL (40X15)	WMTB-AL (60X15)	WMTB-AL (D30)	UC-WMC 1,9...	UC-WMC 3,1...	UC-WMC 4,4...	UC-WMC 5,6...	UC-WMC 7,5...	UC-WMC 1,6...	UC-WMC 2,1...	UC-WMC 2,9...	UC-WMC 3,6...	UC-WMC 4,9...	AI-WM 0,5-8 WH	AI-WM 0,75-8 GY	AI-WM 1-8 RD	AI-WM 1,5-8 WH	AI-WM 2,5-8 BU
0.5																			
1.0															0.5	0.75	1.0	1.5	2.5
1.5					1.2					1.3									
2.0					1.9					1.6									
2.5						1.9					1.6								
3.0						3.1					2.1								
3.5							2.8					2.9							
4.0								4.4					3.6						
4.5								4.2						3.6					
5.0									5.6						4.9				
5.5										5.0									
6.0											7.5								
7.0																			
8.0																			
9.0																			
10.0																			
12.0																			
14.0																			
16.0																			
18.0																			
20.0																			
22.0																			
24.0																			
26.0																			
28.0																			
30.0																			
35.0																			
40.0																			
45.0																			
50.0					>50														



Conductor markers

for assembly with cable binders

for threading on

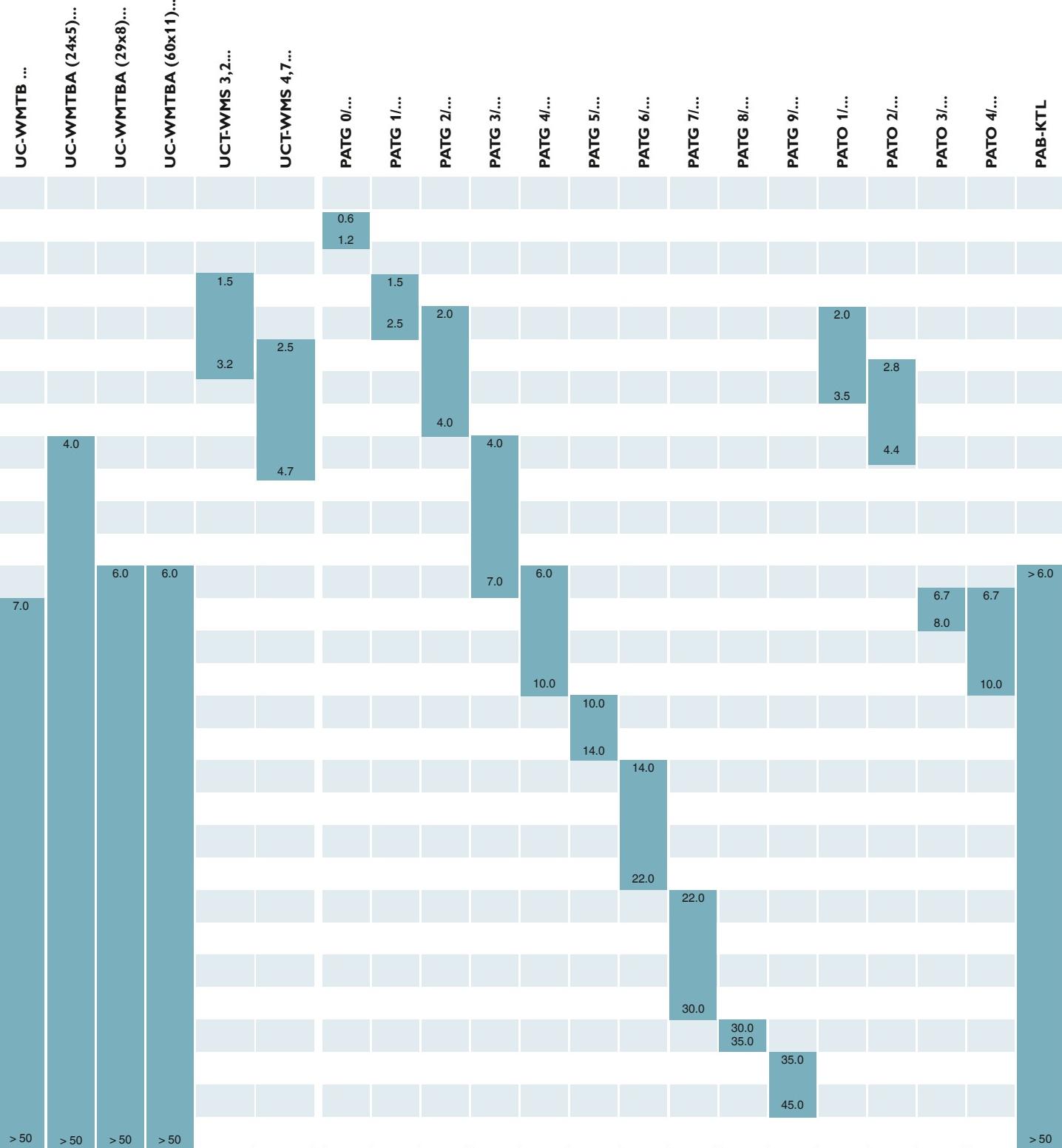
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Page 186

Marking collars

in conjunction with UC-WMT ... / EMT / US-WMT ... / WMTW ... / UCT-WMT...

Page 224



Marking and labeling - MARKING system

Conductor and cable marking

Overview of conductor and cable marking

Markers for marking with THERMOMARK...
or laser printers



Cable markers
for threading on

Page 190

Cable marker labels

Page 194

Conductor diameter
[mm]

US-WMTB (24X5)

US-WMTB (29X8)

US-WMTB (44X15)

VML 3...

VML 5...

VML 6... / US-WML 6...

VML 7,5...

VML 12...

VML 14... / US-WML 14...

VML 18...

VML 22...

VML 36... / US-WML 36...

VML 46...

0.5

1.0

1.5

2.0

2.5

3.0

3.5

4.0

4.5

5.0

5.5

6.0

7.0

8.0

9.0

10.0

12.0

14.0

16.0

18.0

20.0

22.0

24.0

26.0

28.0

30.0

35.0

40.0

45.0

50.0

2.0

2.0

3.0

3.0

3.0

3.0

5.0

2.5

> 4.0

5.0

6.0

7.5

5.0

5.0

12.0

14.0

> 13.0

18.0

22.0

11.0

36.0

11.0

> 13.0

18.0

22.0

11.0

46.0

> 50

> 50

> 50



Shrink sleeve

WMS 2,4...

WMS 3,2...

WMS 4,8...

WMS 6,4...

WMS 9,5...

WMS 12,7...

WMS 19,1...

WMS 25,4...

WMS 38,1...

WMS 50,8...

WMT 24



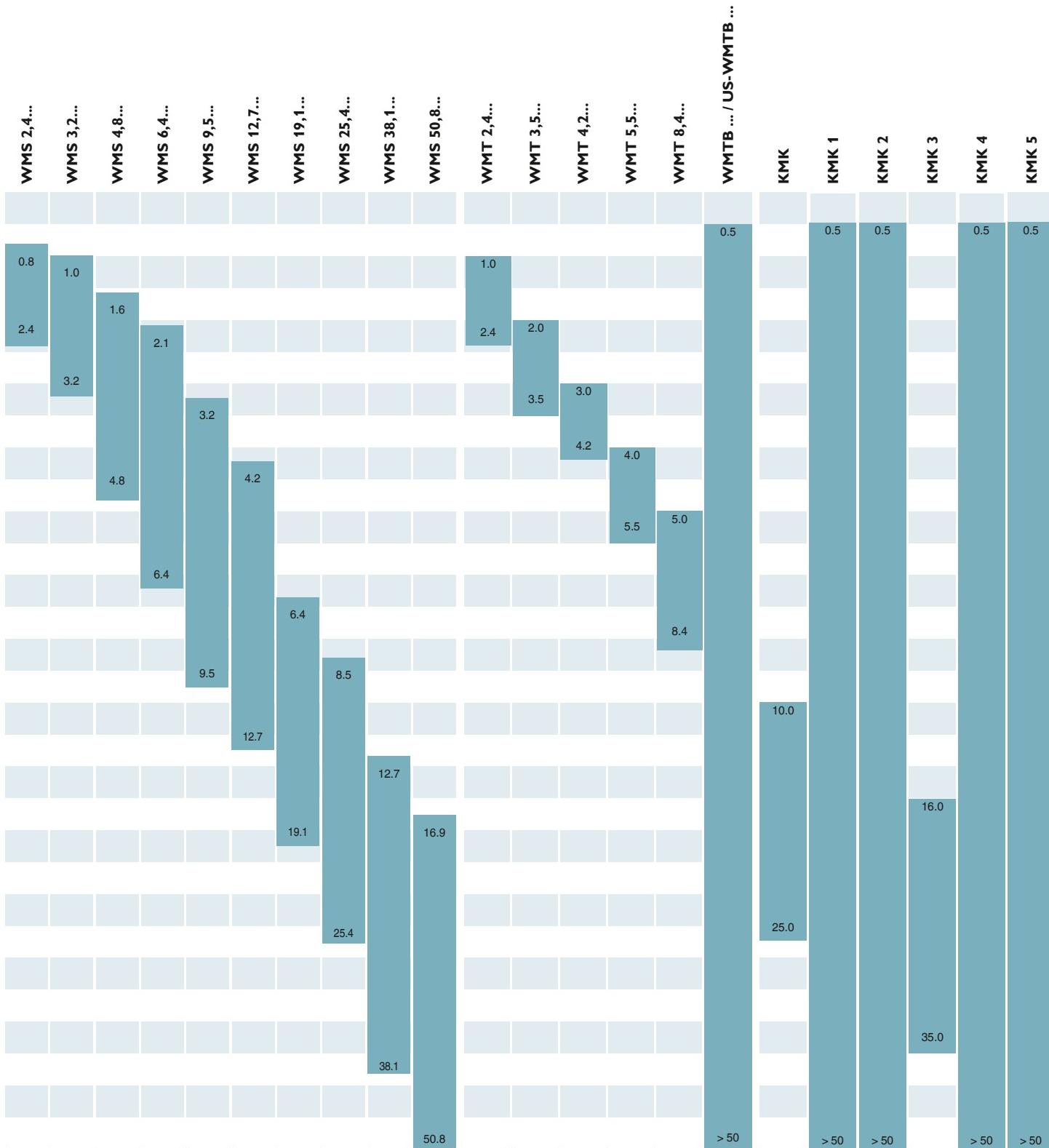
Conductor markers for threading on/ for cable binder fixing

Page 210



Plastic cable markers
in conjunction with US-EMP .../ ESL .../ EMT ...

Page 214



Marking and labeling - MARKING system

Conductor and cable marking

Aluminum cable marking for assembly with cable binders



UV LED technology

The aluminum WMTB-AL... product range is characterized by:

- High-quality appearance
- Easy assembly with cable binders
- Suitable for large-surface marking of conductors and cables > 2.9 mm in diameter

- The circular WMTB-AL (D30) markers can be used for the most diverse applications
- Labeling service: Phoenix Contact can custom-label all markers according to your requirements

General data

Can be printed with:
Material
Wipe resistance
Components

Description	Color
Aluminum label for assembly with cable binders, unmarked	
Lettering field size: 29 x 8 mm, > 2.9 mm	aluminum
Lettering field size: 40 x 15 mm, > 4.6 mm	aluminum
Lettering field size: 60 x 15 mm, > 4.6 mm	aluminum
Aluminum label for assembly with cable binders, labeled according to customer specifications ¹⁾	
Lettering field size: 29 x 8 mm	aluminum
Lettering field size: 40 x 15 mm	aluminum
Lettering field size: 60 x 15 mm	aluminum
Aluminum label, round, for assembly with cable binders	
Diameter: 30 mm	aluminum
Aluminum label, round, for assembly with cable binders, labeled according to customer specifications ¹⁾	
Diameter: 30 mm	aluminum



- The markers can be labeled quickly, easily, and cost-effectively with the BLUEMARK CLED
- By using modern UV LED printing technology, a highly resistant and optimum printing quality can be achieved, which is resistant to solvents and suitable for use even under harsh industrial conditions

- In conjunction with magazines, optimum printing accuracy is guaranteed

Magazine, for BLUEMARK printer, for accommodating aluminum labels
for WMTB-AL (29X8)
for WMTB-AL (40X15)
for WMTB-AL (60X15)
Magazine, for BLUEMARK printer, for accommodating aluminum labels
for WMTB-AL (D30)

Notes:

For corresponding stainless steel cable binders, see page 580.

¹⁾ For ordering example, see page 359.



N



N



Technical data

BLUEMARK CLED
Aluminum
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen and cadmium

Technical data

BLUEMARK CLED
Aluminum
DIN EN 61010-1 (VDE 0411-1)
Free from silicone, halogen and cadmium

Ordering data

Type	Order No.	Pcs./Pkt.
WMTB-AL (29X8)	0830805	90
WMTB-AL (40X15)	0830524	45
WMTB-AL (60X15)	0830525	45
WMTB-AL (29X8) CUS	0830807	1
WMTB-AL (40X15) CUS	0830526	1
WMTB-AL (60X15) CUS	0830527	1

Ordering data

Type	Order No.	Pcs. / Pkt.
WMTB-AL (D30)	0830804	90
WMTB-AL (D30) CUS	0830806	1

Accessories

BLUEMARK MAG WM-M (29X8)	0802743	1
BLUEMARK MAG WM-M (40X15)	0802744	1
BLUEMARK MAG WM-M (60X15)	0802746	1

Accessories

BLUemark MAG WM-M (D30) 0802747 1

Marking and labeling - MARKING system

Conductor and cable marking

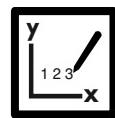
Clip-on UniCard conductor marking



Can be printed with:



UV LED technology



Plotter



20 markers for conductor diameters
from 1.2 to 1.9 mm,
lettering field size: 15 x 4 mm

- The UC-WMC ... UniCard labeling range includes markers for captive labeling of control cables right through to light plastic-sheathed cables with large diameters
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK CLED
- The format automatically ensures printing with a high level of positional accuracy
- Can be clipped on even after wiring has been completed
- One-handed assembly
- Two labeling areas that are clearly legible at all times
- The markers support multiline labeling
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

For more variants, see www.phoenixcontact.net/products.

¹⁾ For ordering example, see page 359.

General data

Can be printed with:

Number of individual labels

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

20

4

PA

V2

Inflammability class according to UL 94

-40 ... 120

Temperature range

DIN EN 61010-1 (VDE 0411-1)

Wipe resistance

free from silicone and halogen

Components

1.2 ... 1.9

Conductor diameter range

[mm]

Conductor cross section range

[mm²]

Conductor cross section range

AWG

0.25 ... 0.34

24 ... 22

Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

20

4

PA

V2

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

1.2 ... 1.9

[mm]

0.25 ... 0.34

[mm²]

AWG

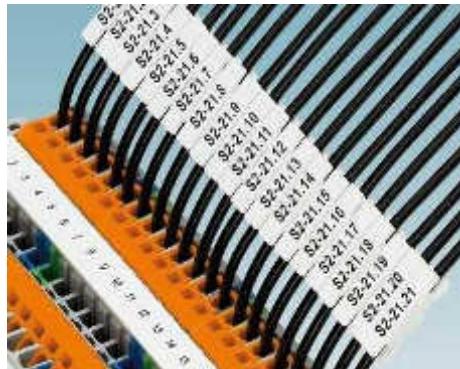
24 ... 22

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for subsequent labeling of conductors				
	white	UC-WMC 1,9 (15X4)	0828004	10
	red	UC-WMC 1,9 (15X4) RD	0828006	10
	orange	UC-WMC 1,9 (15X4) OG	0828007	10
	yellow	UC-WMC 1,9 (15X4) YE	0828008	10
	violet	UC-WMC 1,9 (15X4) VT	0828009	10
	blue	UC-WMC 1,9 (15X4) BU	0828010	10
UniCard, for subsequent labeling of conductors, labeled acc. to customer specifications ¹⁾				
	white	UC-WMC 1,9 (15X4) CUS	0828012	1
	red	UC-WMC 1,9 (15X4) RD CUS	0828013	1
	orange	UC-WMC 1,9 (15X4) OG CUS	0828014	1
	yellow	UC-WMC 1,9 (15X4) YE CUS	0828015	1
	violet	UC-WMC 1,9 (15X4) VT CUS	0828016	1
	blue	UC-WMC 1,9 (15X4) BU CUS	0828017	1

Accessories

Magazine, for CMS-P1-PLOTTER	P1 UC-MAG 1	5146079	1
------------------------------	-------------	---------	---



PRINTED
FOR YOU

**12 markers for conductor diameters
from 1.2 to 1.9 mm,
30 x 4 mm marking field**

Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

12

4

PA

V2

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

1.2 ... 1.9

0.25 ... 0.34

24 ... 22

Ordering data

Type	Order No.	Pcs. / Pkt.
UC-WMC 1,9 (30X4)	0830283	10
UC-WMC 1,9 (30X4) CUS	0830284	1

Accessories

P1 UC-MAG 1	5146079	1
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Marking and labeling - MARKING system

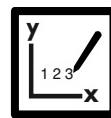
Conductor and cable marking

Clip-on UniCard conductor marking

Can be printed with:



UV LED technology



Plotter



20 markers for conductor diameters
from 1.9 to 3.1 mm,
lettering field size: 15 x 4 mm

- The UC-WMC ... UniCard labeling range includes markers for captive labeling of control cables right through to light plastic-sheathed cables with large diameters
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK CLED
- The format automatically ensures printing with a high level of positional accuracy
- Can be clipped on even after wiring has been completed
- One-handed assembly
- Two labeling areas that are clearly legible at all times
- The markers support multiline labeling
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

For more variants, see www.phoenixcontact.net/products.

General data

Can be printed with:

Number of individual labels

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

20

4

PA

V2

Material

Inflammability class according to UL 94

-40 ... 120

Temperature range

DIN EN 61010-1 (VDE 0411-1)

Wipe resistance

free from silicone and halogen

Components

Conductor diameter range

1.9 ... 3.1

Conductor cross section range

[mm²]

Conductor cross section range

[AWG]

0.5 ... 1.5

20 ... 16

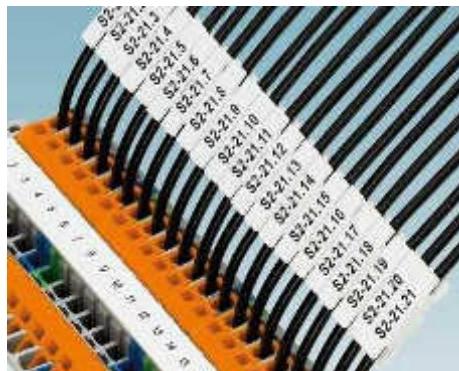
Technical data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for subsequent labeling of conductors				
	white	UC-WMC 3,1 (15X4)	0818205	10
	red	UC-WMC 3,1 (15X4) RD	0818755	10
	orange	UC-WMC 3,1 (15X4) OG	0818726	10
	yellow	UC-WMC 3,1 (15X4) YE	0818739	10
	violet	UC-WMC 3,1 (15X4) VT	0825370	10
	blue	UC-WMC 3,1 (15X4) BU	0818742	10
UniCard, for subsequent labeling of conductors, labeled acc. to customer specifications				
	white	UC-WMC 3,1 (15X 4) CUS	0824692	1
	red	UC-WMC 3,1 (15X 4) RD CUS	0824696	1
	orange	UC-WMC 3,1 (15X 4) OG CUS	0824695	1
	yellow	UC-WMC 3,1 (15X 4) YE CUS	0824697	1
	violet	UC-WMC 3,1 (15X4) VT CUS	0826773	1
	blue	UC-WMC 3,1 (15X4) BU CUS	0824693	1

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Magazine, for CMS-P1-PLOTTER	P1 UC-MAG 1	5146079	1

Accessories



PRINTED
FOR YOUPRINTED
FOR YOU

**12 markers for conductor diameters from 1.9 to 3.1 mm,
lettering field size: 23 x 4 mm**



**12 markers for conductor diameters from 1.9 to 3.1 mm,
lettering field size: 30 x 4 mm**

Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
12
4
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen
1.9 ... 3.1
0.5 ... 1.5
20 ... 16

Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
12
4
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen
1.9 ... 3.1
0.5 ... 1.5
20 ... 16

Ordering data

Type	Order No.	Pcs. / Pkt.
UC-WMC 3,1 (23X4)	0818218	10
UC-WMC 3,1 (23X4) RD	0818807	10
UC-WMC 3,1 (23X4) OG	0818771	10
UC-WMC 3,1 (23X4) YE	0818784	10
UC-WMC 3,1 (23X4) VT	0825371	10
UC-WMC 3,1 (23X4) BU	0818797	10
UC-WMC 3,1 (23X 4) CUS	0824704	1
UC-WMC 3,1 (23X 4) RD CUS	0824708	1
UC-WMC 3,1 (23X 4) OG CUS	0824707	1
UC-WMC 3,1 (23X 4) YE CUS	0824709	1
UC-WMC 3,1 (23X4) VT CUS	0826775	1
UC-WMC 3,1 (23X 4) BU CUS	0824705	1

Ordering data

Type	Order No.	Pcs. / Pkt.
UC-WMC 3,1 (30X4)	0819631	10
UC-WMC 3,1 (30X4) RD	0820769	10
UC-WMC 3,1 (30X4) OG	0823863	10
UC-WMC 3,1 (30X4) YE	0819644	10
UC-WMC 3,1 (30X4) VT	0825372	10
UC-WMC 3,1 (30X4) BU	0820756	10
UC-WMC 3,1 (30X4) CUS	0824716	1
UC-WMC 3,1 (30X4) RD CUS	0824723	1
UC-WMC 3,1 (30X4) OG CUS	0824722	1
UC-WMC 3,1 (30X4) YE CUS	0824717	1
UC-WMC 3,1 (30X4) VT CUS	0826777	1
UC-WMC 3,1 (30X4) BU CUS	0824720	1

Accessories

P1 UC-MAG 1	5146079	1
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Accessories

P1 UC-MAG 1	5146079	1
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Marking and labeling - MARKING system

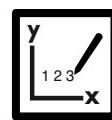
Conductor and cable marking

Clip-on UniCard conductor marking

Can be printed with:



UV LED technology



Plotter



15 markers for conductor diameters from 2.8 to 4.4 mm,
lettering field size: 15 x 5.5 mm

- The UC-WMC ... UniCard labeling range includes markers for captive labeling of control cables right through to light plastic-sheathed cables with large diameters
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK CLED
- The format automatically ensures printing with a high level of positional accuracy
- Can be clipped on even after wiring has been completed
- One-handed assembly
- Two labeling areas that are clearly legible at all times
- The markers support multiline labeling
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

1) For ordering example, see page 359.

General data

Can be printed with:

Number of individual labels

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

15

3

PA

V2

Material

Inflammability class according to UL 94

-40 ... 120

Temperature range

DIN EN 61010-1 (VDE 0411-1)

Wipe resistance

free from silicone and halogen

Components

2.8 ... 4.4

Conductor diameter range

1.5 ... 4

Conductor cross section range

16 ... 12

Conductor cross section range

Technical data

[mm]

[mm²]

AWG

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for subsequent labeling of conductors				
	white	UC-WMC 4,4 (15X5,5)	0818182	10
	red	UC-WMC 4,4 (15X5,5) RD	0818852	10
	orange	UC-WMC 4,4 (15X5,5) OG	0818823	10
	yellow	UC-WMC 4,4 (15X5,5) YE	0818836	10
	violet	UC-WMC 4,4 (15X5,5) VT	0825373	10
	blue	UC-WMC 4,4 (15X5,5) BU	0818849	10
	green	UC-WMC 4,4 (15X5,5) GN	0818865	10
UniCard, for subsequent labeling of conductors, labeled acc. to customer specifications ¹⁾				
	white	UC-WMC 4,4 (15X 5,5) CUS	0824728	1
	red	UC-WMC 4,4 (15X 5,5) RD CUS	0824732	1
	orange	UC-WMC 4,4 (15X 5,5) OG CUS	0824731	1
	yellow	UC-WMC 4,4 (15X 5,5) YE CUS	0824733	1
	violet	UC-WMC 4,4 (15X 5,5) VT CUS	0826779	1
	blue	UC-WMC 4,4 (15X 5,5) BU CUS	0824729	1
	green	UC-WMC 4,4 (15X 5,5) GN CUS	0824730	1

Accessories

Magazine, for CMS-P1-PLOTTER	P1 UC-MAG 2	5146082	1
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**9 markers for conductor diameters
from 2.8 to 4.4 mm,
lettering field size: 23 x 5.5 mm**



**9 markers for conductor diameters
from 2.8 to 4.4 mm,
lettering field size: 30 x 5.5 mm**

Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
9
3
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen
2.8 ... 4.4
1.5 ... 4
16 ... 12

Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
9
3
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen
2.8 ... 4.4
1.5 ... 4
16 ... 12

Ordering data

Type	Order No.	Pcs. / Pkt.
UC-WMC 4,4 (23X5,5)	0818195	10
UC-WMC 4,4 (23X5,5) RD	0818904	10
UC-WMC 4,4 (23X5,5) OG	0818878	10
UC-WMC 4,4 (23X5,5) YE	0818881	10
UC-WMC 4,4 (23X5,5) VT	0825374	10
UC-WMC 4,4 (23X5,5) BU	0818894	10
UC-WMC 4,4 (23X5,5) GN	0818917	10
UC-WMC 4,4 (23X 5,5) CUS	0824740	1
UC-WMC 4,4 (23X 5,5) RD CUS	0824744	1
UC-WMC 4,4 (23X 5,5) OG CUS	0824743	1
UC-WMC 4,4 (23X 5,5) YE CUS	0824745	1
UC-WMC 4,4 (23X5,5) VT CUS	0826781	1
UC-WMC 4,4 (23X 5,5) BU CUS	0824741	1
UC-WMC 4,4 (23X 5,5) GN CUS	0824742	1

Ordering data

Type	Order No.	Pcs. / Pkt.
UC-WMC 4,4 (30X5,5)	0819657	10
UC-WMC 4,4 (30X5,5) RD	0820882	10
UC-WMC 4,4 (30X5,5) OG	0823944	10
UC-WMC 4,4 (30X5,5) YE	0819660	10
UC-WMC 4,4 (30X5,5) VT	0825375	10
UC-WMC 4,4 (30X5,5) BU	0820879	10
UC-WMC 4,4 (30X5,5) GN	0823957	10
UC-WMC 4,4 (30X 5,5) CUS	0824752	1
UC-WMC 4,4 (30X5,5) RD CUS	0824759	1
UC-WMC 4,4 (30X5,5) OG CUS	0824758	1
UC-WMC 4,4 (30X 5,5) YE CUS	0824753	1
UC-WMC 4,4 (30X5,5) VT CUS	0826783	1
UC-WMC 4,4 (30X5,5) BU CUS	0824756	1
UC-WMC 4,4 (30X5,5) GN CUS	0824757	1

Accessories

P1 UC-MAG 2	5146082	1
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Accessories

P1 UC-MAG 2	5146082	1
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Marking and labeling - MARKING system

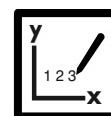
Conductor and cable marking

Clip-on UniCard conductor marking

Can be printed with:



UV LED technology



Plotter

PRINTED
FOR YOU



6 markers for conductor diameters from 4.2 to 5.6 mm,
lettering field size: 23 x 8 mm

- The UC-WMC ... UniCard labeling range includes markers for captive labeling of control cables right through to light plastic-sheathed cables with large diameters
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK CLED
- The format automatically ensures printing with a high level of positional accuracy
- Can be clipped on even after wiring has been completed
- One-handed assembly
- Two labeling areas that are clearly legible at all times
- The markers support multiline labeling
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

1) For ordering example, see page 359.

General data

Can be printed with:

Number of individual labels 6

Number of individual labels per strip 2

Material PA

Inflammability class according to UL 94 V2

Temperature range $^{-}40 \dots 120$ °C

Wipe resistance DIN EN 61010-1 (VDE 0411-1)

Components free from silicone and halogen

Conductor diameter range 4.2 ... 5.6 mm

Conductor cross section range 4 ... 10 mm²

Conductor cross section range 12 ... 10 AWG

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

6

2

PA

V2

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

4.2 ... 5.6

4 ... 10

12 ... 10

Technical data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for subsequent labeling of conductors				
	white	UC-WMC 5,6 (23X8)	0825382	5
	red	UC-WMC 5,6 (23X8) RD	0825387	5
	orange	UC-WMC 5,6 (23X8) OG	0825385	5
	yellow	UC-WMC 5,6 (23X8) YE	0825386	5
	violet	UC-WMC 5,6 (23X8) VT	0825388	5
	blue	UC-WMC 5,6 (23X8) BU	0825383	5
	green	UC-WMC 5,6 (23X8) GN	0825384	5

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for subsequent labeling of conductors, labeled acc. to customer specifications ¹⁾				
	white	UC-WMC 5,6 (23X8) CUS	0827005	1
	red	UC-WMC 5,6 (23X8) RD CUS	0827009	1
	orange	UC-WMC 5,6 (23X8) OG CUS	0827008	1
	yellow	UC-WMC 5,6 (23X8) YE CUS	0827011	1
	violet	UC-WMC 5,6 (23X8) VT CUS	0827010	1
	blue	UC-WMC 5,6 (23X8) BU CUS	0827006	1
	green	UC-WMC 5,6 (23X8) GN CUS	0827007	1

Accessories

Description	Order No.	Pcs. / Pkt.
Magazine, for CMS-P1-PLOTTER	P1 UC-MAG 3	5146095



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FOR YOU

**6 markers for conductor diameters
from 4.2 to 5.6 mm,
lettering field size: 30 x 8 mm**



**6 markers for conductor diameters
from 5 to 7.5 mm,
lettering field size: 23 x 8 mm**



**6 markers for conductor diameters
from 5 to 7.5 mm,
lettering field size: 30 x 8 mm**

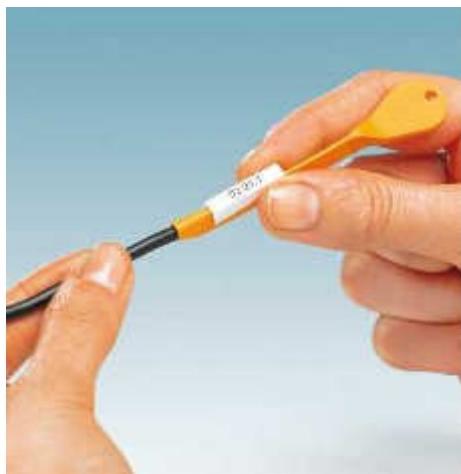
Technical data			Technical data			Technical data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER			BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER			BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER		
6			6			6		
2			2			2		
PA			PA			PA		
V2			V2			V2		
-40 ... 120			-40 ... 120			-40 ... 120		
DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
free from silicone and halogen			free from silicone and halogen			free from silicone and halogen		
4.2 ... 5.6			5 ... 7.5			5 ... 7.5		
4 ... 10			6 ... 16			6 ... 16		
12 ... 10			10 ... 6			10 ... 6		
Ordering data			Ordering data			Ordering data		
UC-WMC 5,6 (30X8)	0825396	5	UC-WMC 7,5 (23X8)	0818179	5	UC-WMC 7,5 (30X8)	0819673	5
UC-WMC 5,6 (30X8) RD	0825401	5	UC-WMC 7,5 (23X8) RD	0819039	5	UC-WMC 7,5 (30X8) RD	0820963	5
UC-WMC 5,6 (30X8) OG	0825399	5	UC-WMC 7,5 (23X8) OG	0818920	5	UC-WMC 7,5 (30X8) OG	0823724	5
UC-WMC 5,6 (30X8) YE	0825400	5	UC-WMC 7,5 (23X8) YE	0818933	5	UC-WMC 7,5 (30X8) YE	0819686	5
UC-WMC 5,6 (30X8) VT	0825402	5	UC-WMC 7,5 (23X8) VT	0825376	5	UC-WMC 7,5 (30X8) VT	0825377	5
UC-WMC 5,6 (30X8) BU	0825397	5	UC-WMC 7,5 (23X8) BU	0818946	5	UC-WMC 7,5 (30X8) BU	0820950	5
UC-WMC 5,6 (30X8) GN	0825398	5	UC-WMC 7,5 (23X8) GN	0818959	5	UC-WMC 7,5 (30X8) GN	0823708	5
UC-WMC 5,6 (30X8) CUS	0827012	1	UC-WMC 7,5 (23X8) CUS	0824767	1	UC-WMC 7,5 (30X8) CUS	0824776	1
UC-WMC 5,6 (30X8) RD CUS	0827016	1	UC-WMC 7,5 (23X8) RD CUS	0824764	1	UC-WMC 7,5 (30X8) RD CUS	0824783	1
UC-WMC 5,6 (30X8) OG CUS	0827015	1	UC-WMC 7,5 (23X8) OG CUS	0824770	1	UC-WMC 7,5 (30X8) OG CUS	0824782	1
UC-WMC 5,6 (30X8) YE CUS	0827018	1	UC-WMC 7,5 (23X8) YE CUS	0824771	1	UC-WMC 7,5 (30X8) YE CUS	0824777	1
UC-WMC 5,6 (30X8) VT CUS	0827017	1	UC-WMC 7,5 (23X8) VT CUS	0826785	1	UC-WMC 7,5 (30X8) VT CUS	0826787	1
UC-WMC 5,6 (30X8) BU CUS	0827013	1	UC-WMC 7,5 (23X8) BU CUS	0824768	1	UC-WMC 7,5 (30X8) BU CUS	0824780	1
UC-WMC 5,6 (30X8) GN CUS	0827014	1	UC-WMC 7,5 (23X8) GN CUS	0824769	1	UC-WMC 7,5 (30X8) GN CUS	0824781	1
Accessories			Accessories			Accessories		
P1 UC-MAG 3	5146095	1	P1 UC-MAG 3	5146095	1	P1 UC-MAG 3	5146095	1

Marking and labeling - MARKING system

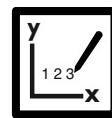
Conductor and cable marking

UniCard slide-on conductor marking

Can be printed with:



UV LED technology



Plotter



40 markers for conductor diameters
from 1.3 to 1.6 mm,
lettering field size: 12 x 3 mm

- The UC-WMCO ... UniCard labeling range includes slide-on markers for the subsequent labeling of conductors. They can be slid on easily using the UC-WMCO ... TOOL
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK CLED
- The format automatically ensures printing with a high level of positional accuracy
- Large-surface labeling in a space-saving design
- Secure tight fit even in the event of vibrations
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

1) For ordering example, see page 359.



General data

Can be printed with:

Number of individual labels

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

40

10

PA

V2

Number of individual labels per strip

-40 ... 120

Material

free from silicone and halogen

Inflammability class according to UL 94

Temperature range

[°C]

Components

1.3 ... 1.6

Conductor diameter range

[mm]

Conductor cross section range

[mm²]

0.25 ... 0.5

Technical data

UniCard, for subsequent labeling of conductors

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for subsequent labeling of conductors	white	UC-WMCO 1,6 (12X3)	0827092	10
	red	UC-WMCO 1,6 (12X3) RD	0827516	10
	orange	UC-WMCO 1,6 (12X3) OG	0827517	10
	yellow	UC-WMCO 1,6 (12X3) YE	0827513	10
	violet	UC-WMCO 1,6 (12X3) VT	0827518	10
	blue	UC-WMCO 1,6 (12X3) BU	0827514	10
	green	UC-WMCO 1,6 (12X3) GN	0827515	10

UniCard, for subsequent labeling of conductors, labeled acc. to customer specifications¹⁾

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for subsequent labeling of conductors, labeled acc. to customer specifications ¹⁾	white	UC-WMCO 1,6 (12X3) CUS	0829032	1
	red	UC-WMCO 1,6 (12X3) RD CUS	0829036	1
	orange	UC-WMCO 1,6 (12X3) OG CUS	0829037	1
	yellow	UC-WMCO 1,6 (12X3) YE CUS	0829033	1
	violet	UC-WMCO 1,6 (12X3) VT CUS	0829038	1
	blue	UC-WMCO 1,6 (12X3) BU CUS	0829034	1
	green	UC-WMCO 1,6 (12X3) GN CUS	0829035	1

Accessories

Magazine, for CMS-P1-PLOTTER

P1 UC-MAG 7	5146568	1
UC-WMCO 2,1 TOOL	0827803	10
UC-WMCO TOOL SET	0827807	1

Assembly tool, for easily sliding on UC-WMCO 1,6 and UC-WMCO 2,1 conductor markers

Assembly tool set, for easily sliding on UC-WMCO 1,6 ... and UC-WMCO 4,9 ... conductor markers

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FOR YOU

**40 markers for conductor diameters
from 1.3 to 1.6 mm,
lettering field size: 21 x 3 mm**



**40 markers for conductor diameters
from 1.6 to 2.1 mm,
lettering field size: 12 x 3 mm**



**40 markers for conductor diameters
from 1.6 to 2.1 mm,
lettering field size: 21 x 3 mm**

Technical data			Technical data			Technical data		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER			BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER			BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER		
40	40		10	10		40	40	
10			PA	PA		10		
PA			V2	V2		PA		
V2			-40 ... 120	-40 ... 120		V2		
-40 ... 120			free from silicone and halogen	free from silicone and halogen		-40 ... 120		
free from silicone and halogen			1.3 ... 1.6	1.6 ... 2.1		free from silicone and halogen		
1.3 ... 1.6			0.5 ... 0.75	0.5 ... 0.75		1.6 ... 2.1		
0.25 ... 0.5						0.5 ... 0.75		
Accessories			Accessories			Accessories		
P1 UC-MAG 7	5146568	1	P1 UC-MAG 7	5146568	1	P1 UC-MAG 7	5146568	1
UC-WMCO 2,1 TOOL	0827803	10	UC-WMCO 2,1 TOOL	0827803	10	UC-WMCO 2,1 TOOL	0827803	10
UC-WMCO TOOL SET	0827807	1	UC-WMCO TOOL SET	0827807	1	UC-WMCO TOOL SET	0827807	1

Marking and labeling - MARKING system

Conductor and cable marking

UniCard slide-on conductor marking

Can be printed with:



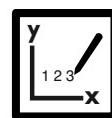
- The UC-WMCO ... UniCard labeling range includes slide-on markers for the subsequent labeling of conductors. They can be slid on easily using the UC-WMCO ... TOOL
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK CLED
- The format automatically ensures printing with a high level of positional accuracy
- Large-surface labeling in a space-saving design
- Secure tight fit even in the event of vibrations
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

¹⁾ For ordering example, see page 359.



UV LED technology



Plotter



40 markers for conductor diameters from 2.1 to 2.9 mm,
lettering field size: 12 x 3.5 mm

Technical data

General data

Can be printed with:	BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER		
Number of individual labels	40		
Number of individual labels per strip	10		
Material	PA		
Inflammability class according to UL 94	V2		
Temperature range	-40 ... 120 °C		
Components	free from silicone and halogen		
Conductor diameter range	[mm]	2.1 ... 2.9	
Conductor cross section range	[mm ²]	0.75 ... 1.5	

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for subsequent labeling of conductors				
	white	UC-WMCO 2,9 (12X3,5)	0827148	10
	red	UC-WMCO 2,9 (12X3,5) RD	0827564	10
	orange	UC-WMCO 2,9 (12X3,5) OG	0827565	10
	yellow	UC-WMCO 2,9 (12X3,5) YE	0827561	10
	violet	UC-WMCO 2,9 (12X3,5) VT	0827566	10
	blue	UC-WMCO 2,9 (12X3,5) BU	0827562	10
	green	UC-WMCO 2,9 (12X3,5) GN	0827563	10
UniCard, for subsequent labeling of conductors, labeled acc. to customer specifications ¹⁾				
	white	UC-WMCO 2,9 (12X3,5) CUS	0829060	1
	red	UC-WMCO 2,9 (12X3,5) RD CUS	0829064	1
	orange	UC-WMCO 2,9 (12X3,5) OG CUS	0829065	1
	yellow	UC-WMCO 2,9 (12X3,5) YE CUS	0829061	1
	violet	UC-WMCO 2,9 (12X3,5) VT CUS	0829066	1
	blue	UC-WMCO 2,9 (12X3,5) BU CUS	0829062	1
	green	UC-WMCO 2,9 (12X3,5) GN CUS	0829063	1

Accessories

Magazine, for CMS-P1-PLOTTER	P1 UC-MAG 7	5146568	1
Assembly tool, for easily sliding on UC-WMCO 2,9 ... and UC-WMCO 3,6 ... conductor markers			
Assembly tool set, for easily sliding on UC-WMCO 1,6 ... and UC-WMCO 4,9 ... conductor markers	UC-WMCO 3,6 TOOL	0827804	10
	UC-WMCO TOOL SET	0827807	1

PRINTED
FOR YOUPRINTED
FOR YOUPRINTED
FOR YOU

**40 markers for conductor diameters
from 2.1 to 2.9 mm,
lettering field size: 21 x 3.5 mm**



**32 markers for conductor diameters
from 2.9 to 3.6 mm,
lettering field size: 12 x 4.5 mm**



**32 markers for conductor diameters
from 2.9 to 3.6 mm,
lettering field size: 21 x 4.5 mm**

Technical data			Technical data			Technical data		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER			BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER			BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER		
40			32			32		
10			8			8		
PA			PA			PA		
V2			V2			V2		
-40 ... 120			-40 ... 120			-40 ... 120		
free from silicone and halogen			free from silicone and halogen			free from silicone and halogen		
2.1 ... 2.9			2.9 ... 3.6			2.9 ... 3.6		
0.75 ... 1.5			1.5 ... 2.5			1.5 ... 2.5		
Ordering data								
UC-WMCO 2,9 (21X3,5)	0827162	10	UC-WMCO 3,6 (12X4,5)	0827176	10	UC-WMCO 3,6 (21X4,5)	0827190	10
UC-WMCO 2,9 (21X3,5) RD	0827576	10	UC-WMCO 3,6 (12X4,5) RD	0827588	10	UC-WMCO 3,6 (21X4,5) RD	0827600	10
UC-WMCO 2,9 (21X3,5) OG	0827577	10	UC-WMCO 3,6 (12X4,5) OG	0827589	10	UC-WMCO 3,6 (21X4,5) OG	0827601	10
UC-WMCO 2,9 (21X3,5) YE	0827573	10	UC-WMCO 3,6 (12X4,5) YE	0827585	10	UC-WMCO 3,6 (21X4,5) YE	0827597	10
UC-WMCO 2,9 (21X3,5) VT	0827578	10	UC-WMCO 3,6 (12X4,5) VT	0827590	10	UC-WMCO 3,6 (21X4,5) VT	0827602	10
UC-WMCO 2,9 (21X3,5) BU	0827574	10	UC-WMCO 3,6 (12X4,5) BU	0827586	10	UC-WMCO 3,6 (21X4,5) BU	0827598	10
UC-WMCO 2,9 (21X3,5) GN	0827575	10	UC-WMCO 3,6 (12X4,5) GN	0827587	10	UC-WMCO 3,6 (21X4,5) GN	0827599	10
UC-WMCO 2,9 (21X3,5) CUS	0829067	1	UC-WMCO 3,6 (12X4,5) CUS	0829074	1	UC-WMCO 3,6 (21X4,5) CUS	0829081	1
UC-WMCO 2,9 (21X3,5) RD CUS	0829071	1	UC-WMCO 3,6 (12X4,5) RD CUS	0829078	1	UC-WMCO 3,6 (21X4,5) RD CUS	0829085	1
UC-WMCO 2,9 (21X3,5) OG CUS	0829072	1	UC-WMCO 3,6 (12X4,5) OG CUS	0829079	1	UC-WMCO 3,6 (21X4,5) OG CUS	0829086	1
UC-WMCO 2,9 (21X3,5) YE CUS	0829068	1	UC-WMCO 3,6 (12X4,5) YE CUS	0829075	1	UC-WMCO 3,6 (21X4,5) YE CUS	0829082	1
UC-WMCO 2,9 (21X3,5) VT CUS	0829073	1	UC-WMCO 3,6 (12X4,5) VT CUS	0829080	1	UC-WMCO 3,6 (21X4,5) VT CUS	0829087	1
UC-WMCO 2,9 (21X3,5) BU CUS	0829069	1	UC-WMCO 3,6 (12X4,5) BU CUS	0829076	1	UC-WMCO 3,6 (21X4,5) BU CUS	0829083	1
UC-WMCO 2,9 (21X3,5) GN CUS	0829070	1	UC-WMCO 3,6 (12X4,5) GN CUS	0829077	1	UC-WMCO 3,6 (21X4,5) GN CUS	0829084	1
Accessories								
P1 UC-MAG 7	5146568	1	P1 UC-MAG 7	5146568	1	P1 UC-MAG 7	5146568	1
UC-WMCO 3,6 TOOL	0827804	10	UC-WMCO 3,6 TOOL	0827804	10	UC-WMCO 3,6 TOOL	0827804	10
UC-WMCO TOOL SET	0827807	1	UC-WMCO TOOL SET	0827807	1	UC-WMCO TOOL SET	0827807	1

Marking and labeling - MARKING system

Conductor and cable marking

UniCard slide-on conductor marking

- The UC-WMCO ... UniCard labeling range includes slide-on markers for the subsequent labeling of conductors. They can be slid on easily using the UC-WMCO ... TOOL
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

1) For ordering example, see page 359.



24 markers for conductor diameters
from 3.6 to 4.9 mm,
lettering field size: 12 x 5 mm



24 markers for conductor diameters
from 3.6 to 4.9 mm,
lettering field size: 21 x 5 mm

General data

Can be printed with:	BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
Number of individual labels	24
Number of individual labels per strip	6
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Components	free from silicone and halogen
Conductor diameter range	3.6 ... 4.9 [mm]
Conductor cross section range	2.5 ... 4 [mm²]

Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

Description Color

Ordering data

Type	Order No.	Pcs. / Pkt.
UC-WMCO 4,9 (12X5)	0827733	5
UC-WMCO 4,9 (12X5) RD	0827737	5
UC-WMCO 4,9 (12X5) OG	0827738	5
UC-WMCO 4,9 (12X5) YE	0827734	5
UC-WMCO 4,9 (12X5) VT	0827739	5
UC-WMCO 4,9 (12X5) BU	0827735	5
UC-WMCO 4,9 (12X5) GN	0827736	5

Ordering data

Type	Order No.	Pcs. / Pkt.
UC-WMCO 4,9 (21X5)	0827747	5
UC-WMCO 4,9 (21X5) RD	0827751	5
UC-WMCO 4,9 (21X5) OG	0827752	5
UC-WMCO 4,9 (21X5) YE	0827748	5
UC-WMCO 4,9 (21X5) VT	0827753	5
UC-WMCO 4,9 (21X5) BU	0827749	5
UC-WMCO 4,9 (21X5) GN	0827750	5

UniCard, for subsequent labeling of conductors

Accessories

white	UC-WMCO 4,9 (12X5) CUS	0829088	1
red	UC-WMCO 4,9 (12X5) RD CUS	0829092	1
orange	UC-WMCO 4,9 (12X5) OG CUS	0829093	1
yellow	UC-WMCO 4,9 (12X5) YE CUS	0829089	1
violet	UC-WMCO 4,9 (12X5) VT CUS	0829094	1
blue	UC-WMCO 4,9 (12X5) BU CUS	0829090	1
green	UC-WMCO 4,9 (12X5) GN CUS	0829091	1

Accessories

white	UC-WMCO 4,9 (21X5) CUS	0829095	1
red	UC-WMCO 4,9 (21X5) RD CUS	0829099	1
orange	UC-WMCO 4,9 (21X5) OG CUS	0829100	1
yellow	UC-WMCO 4,9 (21X5) YE CUS	0829096	1
violet	UC-WMCO 4,9 (21X5) VT CUS	0829101	1
blue	UC-WMCO 4,9 (21X5) BU CUS	0829097	1
green	UC-WMCO 4,9 (21X5) GN CUS	0829098	1

Magazine, for CMS-P1-PLOTTER

P1 UC-MAG 7	5146568	1
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P1 UC-MAG 7	5146568	1
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Assembly tool, for easily sliding on UC-WMCO 4,9 ... conductor markers

UC-WMCO 5,8 TOOL	0827805	10
------------------	---------	----

UC-WMCO 5,8 TOOL	0827805	10
------------------	---------	----

Assembly tool set, for easily sliding on UC-WMCO 1,6 ... and UC-WMCO 4,9 ... conductor markers

UC-WMCO TOOL SET	0827807	1
------------------	---------	---

UC-WMCO TOOL SET	0827807	1
------------------	---------	---

Conductor marking with ferrules that can be labeled

Can be printed with:



UV LED technology



- Ferrules can be labeled with BLUEMARK CLED
- Crimping and marking in one step
- Highly resistant and optimum printing quality thanks to modern UV printing technology
- Ferrules made from electrolytic copper
- Electrogalvanized
- Corresponding crimping pliers can be found on page 393.



Ferrules for conductors
with a cross section of 0.5 to 2.5 mm²,
lettering field size: 15 x 4 mm

General data

Can be printed with:
Material / coating
Temperature range
Components

Technical data

BLUEMARK CLED • BLUEMARK LED
E-CU / tin-plated (galvanic)
-40 ... 120
free from silicone and halogen

Description

Color

Ferrules, with plastic sleeve that can be marked, color range according to DIN 46228-4: 1990-09
20 pcs., 0.5 mm² cross section white AI-WM 0,5-8 WH 3240542 780
20 pcs., 0.75 mm² cross section gray AI-WM 0,75-8 GY 3240543 780
20 pcs., 1.0 mm² cross section red AI-WM 1-8 RD 3240544 780
20 pcs., 1.5 mm² cross section white AI-WM 1,5-8 WH 3240545 780
20 pcs., 2.5 mm² cross section blue AI-WM 2,5-8 BU 3240572 528

Ordering data

Type	Order No.	Pcs. / Pkt.
AI-WM 0,5-8 WH	3240542	780
AI-WM 0,75-8 GY	3240543	780
AI-WM 1-8 RD	3240544	780
AI-WM 1,5-8 WH	3240545	780
AI-WM 2,5-8 BU	3240572	528

Accessories

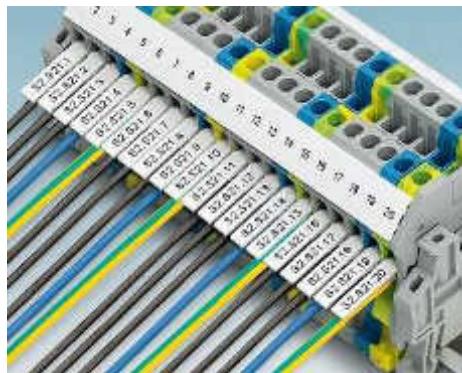
Magazine for BLUEMARK printer, for accommodating ferrules with insulating collar that can be labeled

For 0.5 – 1.5 mm²
For 2.5 mm²

BLUEMARK MAG AI-WM
BLUEMARK MAG AI-WM 2,5

5146567
5146640

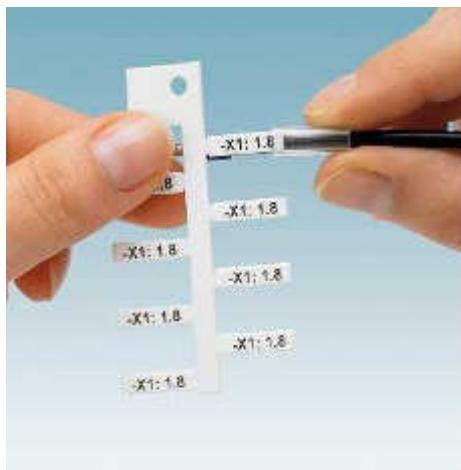
1
1



Marking and labeling - MARKING system

Conductor and cable marking

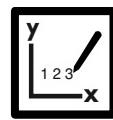
UniCard conductor marking for marking collars



Can be printed with:



UV LED technology



Plotter



48 markers
for a lettering field size of 10 x 4 mm

- The UC-WMT ... UniCard labeling range includes markers for conductor marking with marking collars from the PATG/PATO ... system; see page 224
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK CLED
- The format automatically ensures printing with a high level of positional accuracy
- Labeled insert strips are simply inserted into the collars. This protects the marking against contamination
- To simplify mounting, the insert labels are arranged on UniCard sheets so that they can be separated branch by branch
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

PATG/PATO ... system, see page 224.

¹⁾ For ordering example, see page 359.

General data

Can be printed with:

Number of individual labels
Number of individual labels per strip

Material

Inflammability class according to UL 94

Temperature range [°C]

Components

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

48

8

PA

V2

-40 ... 120

free from silicone and halogen

Technical data

Description

UniCard, with insert strips for PATG and PATO marking collars

Type

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, with insert strips for PATG and PATO marking collars	white	UC-WMT (10X4)	0819372	10
	red	UC-WMT (10X4) RD	0821001	10
	orange	UC-WMT (10X4) OG	0823986	10
	yellow	UC-WMT (10X4) YE	0819385	10
	violet	UC-WMT (10X4) VT	0825360	10
	blue	UC-WMT (10X4) BU	0820992	10
	green	UC-WMT (10X4) GN	0823999	10
UniCard, with insert strips for marking system, labeled acc. to customer specifications ¹⁾	white	UC-WMT (10X4) CUS	0824788	1
	red	UC-WMT (10X4) RD CUS	0824790	1
	orange	UC-WMT (10X4) OG CUS	0824796	1
	yellow	UC-WMT (10X4) YE CUS	0824791	1
	violet	UC-WMT (10X4) VT CUS	0826789	1
	blue	UC-WMT (10X4) BU CUS	0824789	1
	green	UC-WMT (10X4) GN CUS	0824795	1

Color

white
red
orange
yellow
violet
blue
green

Order No.

0819372
0821001
0823986
0819385
0825360
0820992
0823999

Pcs. / Pkt.

10
10
10
10
10
10
10

UniCard, with insert strips for marking system, labeled acc. to customer specifications¹⁾

white
red
orange
yellow
violet
blue
green

0824788
0824790
0824796
0824791
0826789
0824789
0824795

1
1
1
1
1
1
1

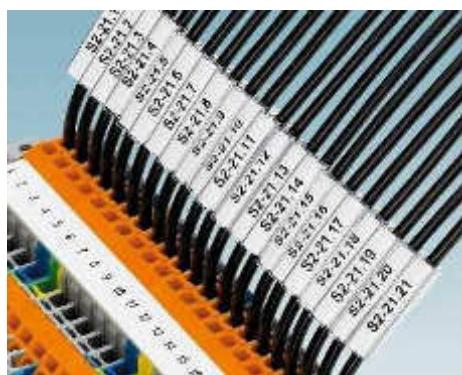
Accessories

Magazine, for CMS-P1-PLOTTER

P1 UC-MAG 4

5146105

1



PRINTED
FOR YOUPRINTED
FOR YOUPRINTED
FOR YOU

32 markers
for a lettering field size of 12 x 4 mm



32 markers
for a lettering field size of 15 x 4 mm



24 markers
for a lettering field size of 18 x 4 mm

Technical data			Technical data			Technical data		
BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER			BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER			BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UC-WMT (12X4)	0823517	10	UC-WMT (15X4)	0819398	10	UC-WMT (18X4)	0820293	10
UC-WMT (12X4) RD	0823614	10	UC-WMT (15X4) RD	0821043	10	UC-WMT (18X4) RD	0821085	10
UC-WMT (12X4) OG	0823588	10	UC-WMT (15X4) OG	0824037	10	UC-WMT (18X4) OG	0824079	10
UC-WMT (12X4) YE	0823591	10	UC-WMT (15X4) YE	0819408	10	UC-WMT (18X4) YE	0820303	10
UC-WMT (12X4) VT	0825378	10	UC-WMT (15X4) VT	0825361	10	UC-WMT (18X4) VT	0825362	10
UC-WMT (12X4) BU	0823575	10	UC-WMT (15X4) BU	0821030	10	UC-WMT (18X4) BU	0821072	10
UC-WMT (12X4) GN	0823601	10	UC-WMT (15X4) GN	0824040	10	UC-WMT (18X4) GN	0824082	10
UC-WMT (12X4) CUS	0827033	1	UC-WMT (15X4) CUS	0824812	1	UC-WMT (18X4) CUS	0824824	1
UC-WMT (12X4) RD CUS	0827035	1	UC-WMT (15X4) RD CUS	0824814	1	UC-WMT (18X4) RD CUS	0824826	1
UC-WMT (12X4) OG CUS	0827036	1	UC-WMT (15X4) OG CUS	0824821	1	UC-WMT (18X4) OG CUS	0824833	1
UC-WMT (12X4) YE CUS	0827037	1	UC-WMT (15X4) YE CUS	0824815	1	UC-WMT (18X4) YE CUS	0824827	1
UC-WMT (12X4) VT CUS	0827038	1	UC-WMT (15X4) VT CUS	0826791	1	UC-WMT (18X4) VT CUS	0826793	1
UC-WMT (12X4) BU CUS	0827039	1	UC-WMT (15X4) BU CUS	0824813	1	UC-WMT (18X4) BU CUS	0824825	1
UC-WMT (12X4) GN CUS	0827040	1	UC-WMT (15X4) GN CUS	0824820	1	UC-WMT (18X4) GN CUS	0824832	1
Accessories			Accessories			Accessories		
P1 UC-MAG 4	5146105	1	P1 UC-MAG 4	5146105	1	P1 UC-MAG 4	5146105	1

Marking and labeling - MARKING system

Conductor and cable marking

UniCard conductor marking for marking collars

- The UC-WMT ... UniCard labeling range includes markers for conductor marking with marking collars from the PATG/PATO ... system; see page 224
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

PATG/PATO ... system, see page 224.

¹⁾ For ordering example, see page 359.



24 markers
for a lettering field size of 23 x 4 mm



16 markers
for a lettering field size of 30 x 4 mm

General data

Can be printed with:

Number of individual labels

Number of individual labels per strip

Material

Inflammability class according to UL 94

[°C]

Temperature range

Components

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

24

8

PA

V2

-40 ... 120

free from silicone and halogen

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

16

8

PA

V2

-40 ... 120

free from silicone and halogen

Description

Color

UniCard, with insert strips for PATG and PATO marking collars

Ordering data

Ordering data

Type	Order No.	Pcs. / Pkt.
UC-WMT (23X4)	0819411	10
UC-WMT (23X4) RD	0821124	10
UC-WMT (23X4) OG	0824118	10
UC-WMT (23X4) YE	0819424	10
UC-WMT (23X4) VT	0825363	10
UC-WMT (23X4) BU	0821111	10
UC-WMT (23X4) GN	0824121	10

Type	Order No.	Pcs. / Pkt.
UC-WMT (30X4)	0819437	10
UC-WMT (30X4) RD	0821166	10
UC-WMT (30X4) OG	0824150	10
UC-WMT (30X4) YE	0819440	10
UC-WMT (30X4) VT	0825364	10
UC-WMT (30X4) BU	0821153	10
UC-WMT (30X4) GN	0824163	10

UniCard, with insert strips for marking system, **labeled acc. to customer specifications¹⁾**

Accessories

Accessories

Magazine, for CMS-P1-PLOTTER

P1 UC-MAG 4	5146105	1
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P1 UC-MAG 4	5146105	1
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UniCard cable marking for assembly with cable binders



Can be printed with:



UV LED technology



Plotter



Markers for cable diameters > 7 mm

- The UC-WMTB ... UniCard labeling range includes markers that can be secured using standard cable binders
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK CLED
- The format automatically ensures printing with a high level of positional accuracy
- For large-surface labeling of conductors and cables > 7 mm in diameter
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

For more cable markers for fixing with cable binders, visit: www.phoenixcontact.net/products.

For corresponding cable binders, see page 574 onwards.

¹⁾ For ordering example, see page 359.

General data

Can be printed with:

Material

Inflammability class according to UL 94

Temperature range

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

PA

V2

-40 ... 120

Components

free from silicone and halogen

Cable diameter range

[°C]

Cable cross section range

[mm]

[mm²]

> 7

> 16

Description

Color

Technical data

Type	Order No.	Pcs. / Pkt.
UC-WMTB (44X15)	0828376	10
UC-WMTB (44X15) RD	0828377	10
UC-WMTB (44X15) OG	0828378	10
UC-WMTB (44X15) YE	0828379	10
UC-WMTB (44X15) VT	0828380	10
UC-WMTB (44X15) BU	0828381	10
UC-WMTB (44X15) GN	0828382	10
UC-WMTB (44X15) SR	0828383	10
UC-WMTB (44X15) BN	0828384	10

UniCard, for assembly with two cable binders, 4-section, lettering field size: 44 x 15 mm

Type	Order No.	Pcs. / Pkt.	
white	UC-WMTB (44X15)	0828376	10
red	UC-WMTB (44X15) RD	0828377	10
orange	UC-WMTB (44X15) OG	0828378	10
yellow	UC-WMTB (44X15) YE	0828379	10
violet	UC-WMTB (44X15) VT	0828380	10
blue	UC-WMTB (44X15) BU	0828381	10
green	UC-WMTB (44X15) GN	0828382	10
silver	UC-WMTB (44X15) SR	0828383	10
brown	UC-WMTB (44X15) BN	0828384	10

UniCard, for assembly with one cable binder

Type	Order No.	Pcs. / Pkt.	
white	UC-WMTB (52X30)	5775288	10
white	UC-WMTB (52X50)	5775289	10

3-section, lettering field size: 52 x 30 mm
2-section, lettering field size: 52 x 50 mm

UniCard, for mounting with two cable binders, labeled acc. to customer specifications, 4-section, lettering field size: 44 x 15 mm¹⁾

Type	Order No.	Pcs. / Pkt.	
white	UC-WMTB (44X15) CUS	0829379	1
orange	UC-WMTB (44X15) OG CUS	0829405	1
yellow	UC-WMTB (44X15) YE CUS	0829409	1
violet	UC-WMTB (44X15) VT CUS	0829408	1
blue	UC-WMTB (44X15) BU CUS	0829403	1
green	UC-WMTB (44X15) GN CUS	0829404	1
silver	UC-WMTB (44X15) SR CUS	0829407	1
brown	UC-WMTB (44X15) BN CUS	0829402	1

UniCard, for assembly with one cable binder, labeled acc. to customer specifications¹⁾

Type	Order No.	Pcs. / Pkt.	
white	UC-WMTB (52X30) CUS	0829432	1
white	UC-WMTB (52X50) CUS	0829433	1

3-section, lettering field size: 52 x 30 mm
2-section, lettering field size: 52 x 50 mm

Accessories

Magazine, for CMS-P1-PLOTTER

P1 UC-MAG 6	5146121	1
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Marking and labeling - MARKING system

Conductor and cable marking

UniCard cable marking for assembly with cable binders



- The UC-WMTBA ... UniCard labeling range includes markers that can be secured using standard cable binders
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK CLED
- The format automatically ensures printing with a high level of positional accuracy
- For large-surface labeling of conductors and cables > 4 mm in diameter
- The sheets provide space for including function texts
- Thanks to their angular shape the markers fit perfectly onto cables
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

Cable binders can be used for UC-WMTBA... up to a width of 5 mm.

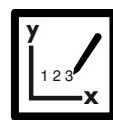
For corresponding cable binders, see page 574 onwards.

1) For ordering example, see page 359.

Can be printed with:



UV LED technology



Plotter



12 markers for a cable diameter > 4 mm,
lettering field size: 24 x 5 mm

Technical data

General data

Can be printed with:

Number of individual labels

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

12

4

PA

V2

Inflammability class according to UL 94

-40 ... 120

Temperature range

free from silicone and halogen

Components

> 4

Cable diameter range

[mm]

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for assembly with cable binders				
	white	UC-WMTBA (24X5)	0820426	10
	red	UC-WMTBA (24X5) RD	0820565	10
	orange	UC-WMTBA (24X5) OG	0825342	10
	yellow	UC-WMTBA (24X5) YE	0820439	10
	violet	UC-WMTBA (24X5) VT	0825344	10
	blue	UC-WMTBA (24X5) BU	0820552	10
	green	UC-WMTBA (24X5) GN	0825343	10
UniCard, for assembly with cable binders, labeled acc. to customer specifications ¹⁾				
	white	UC-WMTBA (24X5) CUS	0824860	1
	red	UC-WMTBA (24X5) RD CUS	0824862	1
	orange	UC-WMTBA (24X5) OG CUS	0826800	1
	yellow	UC-WMTBA (24X5) YE CUS	0824863	1
	violet	UC-WMTBA (24X5) VT CUS	0826801	1
	blue	UC-WMTBA (24X5) BU CUS	0824861	1
	green	UC-WMTBA (24X5) GN CUS	0826799	1

Accessories

Magazine, for CMS-P1-PLOTTER	P1 UC-MAG 1	5146079	1
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PRINTED
FOR YOUPRINTED
FOR YOU

**12 markers for a cable diameter > 6 mm,
lettering field size: 29 x 8 mm**



**4 markers for a cable diameter > 6 mm,
lettering field size: 60 x 11 mm**

Technical data			Technical data		
BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER			BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER		
12			4		
4			1		
PA			PA		
V2			V2		
-40 ... 120			-40 ... 120		
free from silicone and halogen			free from silicone and halogen		
> 6			> 6		
Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UC-WMTBA (29X8)	0820183	10	UC-WMTBA (60X11)	0820468	10
UC-WMTBA (29X8) RD	0820604	10	UC-WMTBA (60X11) RD	0820646	10
UC-WMTBA (29X8) OG	0825345	10	UC-WMTBA (60X11) OG	0825348	10
UC-WMTBA (29X8) YE	0820390	10	UC-WMTBA (60X11) YE	0820471	10
UC-WMTBA (29X8) VT	0825347	10	UC-WMTBA (60X11) VT	0825350	10
UC-WMTBA (29X8) BU	0820594	10	UC-WMTBA (60X11) BU	0820633	10
UC-WMTBA (29X8) GN	0825346	10	UC-WMTBA (60X11) GN	0825349	10
UC-WMTBA (29X8) CUS	0824868	1	UC-WMTBA (60X11) CUS	0824876	1
UC-WMTBA (29X8) RD CUS	0824870	1	UC-WMTBA (60X11) RD CUS	0824878	1
UC-WMTBA (29X8) OG CUS	0826806	1	UC-WMTBA (60X11) OG CUS	0826812	1
UC-WMTBA (29X8) YE CUS	0824871	1	UC-WMTBA (60X11) YE CUS	0824879	1
UC-WMTBA (29X8) VT CUS	0826807	1	UC-WMTBA (60X11) VT CUS	0826813	1
UC-WMTBA (29X8) BU CUS	0824869	1	UC-WMTBA (60X11) BU CUS	0824877	1
UC-WMTBA (29X8) GN CUS	0826805	1	UC-WMTBA (60X11) GN CUS	0826811	1
Accessories			Accessories		
P1 UC-MAG 1	5146079	1	P1 UC-MAG 1	5146079	1

Marking and labeling - MARKING system

Conductor and cable marking

UniCard conductor marking for marking collars



Can be printed with:



Thermal transfer for sheets and cards



UV LED technology



60 markers with 10 x 4 mm lettering field size

- The UCT-WMT ... UniCard labeling range includes markers for conductor marking with marking collars from the PATG/PATO ... system; see page 224
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK CLED
- The format automatically ensures printing with a high level of positional accuracy
- Labeled insert strips are simply inserted into the collars. This protects the marking against contamination
- To simplify mounting, the insert labels are arranged on UniCard sheets so that they can be separated branch by branch
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

PATG/PATO ... system, see page 224.

¹⁾ For ordering example, see page 359.

General data

Can be printed with:

Number of individual labels

THERMOMARK CARD PLUS • THERMOMARK CARD • BLUE-MARK CLED • BLUEMARK LED

Material

60

Inflammability class according to UL 94

PC V0

Temperature range

V0

Components

-40 ... 120

free from silicone and halogen

[°C]

Description

Type

Order No.

Pcs. / Pkt.

UniCard, with insert strips for PATG and PATO marking collars

white	UCT-WMT (10X4)	0801430	10
red	UCT-WMT (10X4) RD	0801433	10
orange	UCT-WMT (10X4) OG	0801434	10
yellow	UCT-WMT (10X4) YE	0801431	10
violet	UCT-WMT (10X4) VT	0801436	10
blue	UCT-WMT (10X4) BU	0801437	10
green	UCT-WMT (10X4) GN	0801435	10

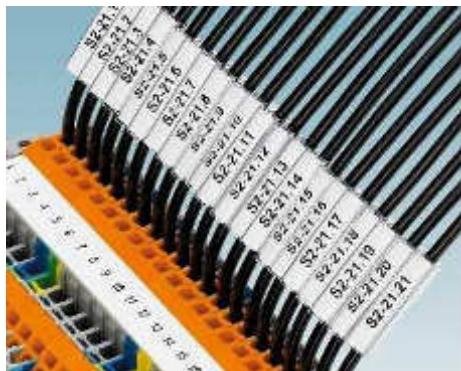
UniCard, with insert strips for PATG, PATO marking system, labeled according to customer specifications¹⁾

white	UCT-WMT (10X4) CUS	0801515	1
red	UCT-WMT (10X4) RD CUS	0801517	1
orange	UCT-WMT (10X4) OG CUS	0801518	1
yellow	UCT-WMT (10X4) YE CUS	0801516	1
violet	UCT-WMT (10X4) VT CUS	0801520	1
blue	UCT-WMT (10X4) BU CUS	0801521	1
green	UCT-WMT (10X4) GN CUS	0801519	1

Magazine, for THERMOMARK CARD ..., for accommodating UCT-WMT ... sheets, UCT-EM (17X10)

Accessories

THERMOMARK CARD-UCT-MAG7	0801734	1
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50 markers with 12 x 4 mm lettering field size

50 markers with 15 x 4 mm lettering field size

40 markers with 18 x 4 mm lettering field size

Technical data			Technical data			Technical data		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD PLUS • THERMOMARK CARD • BLUE-MARK CLED • BLUEMARK LED			THERMOMARK CARD PLUS • THERMOMARK CARD • BLUE-MARK CLED • BLUEMARK LED			THERMOMARK CARD PLUS • THERMOMARK CARD • BLUE-MARK CLED • BLUEMARK LED		
50			50			40		
PC V0			PC V0			PC V0		
V0			V0			V0		
-40 ... 120			-40 ... 120			-40 ... 120		
free from silicone and halogen			free from silicone and halogen			free from silicone and halogen		
UCT-WMT (12X4)	0801438	10	UCT-WMT (15X4)	0801446	10	UCT-WMT (18X4)	0801462	10
UCT-WMT (12X4) RD	0801440	10	UCT-WMT (15X4) RD	0801448	10	UCT-WMT (18X4) RD	0801464	10
UCT-WMT (12X4) OG	0801441	10	UCT-WMT (15X4) OG	0801449	10	UCT-WMT (18X4) OG	0801465	10
UCT-WMT (12X4) YE	0801439	10	UCT-WMT (15X4) YE	0801447	10	UCT-WMT (18X4) YE	0801463	10
UCT-WMT (12X4) VT	0801443	10	UCT-WMT (15X4) VT	0801451	10	UCT-WMT (18X4) VT	0801467	10
UCT-WMT (12X4) BU	0801444	10	UCT-WMT (15X4) BU	0801452	10	UCT-WMT (18X4) BU	0801468	10
UCT-WMT (12X4) GN	0801442	10	UCT-WMT (15X4) GN	0801450	10	UCT-WMT (18X4) GN	0801466	10
UCT-WMT (12X4) CUS	0801522	1	UCT-WMT (15X4) CUS	0801530	1	UCT-WMT (18X4) CUS	0801538	1
UCT-WMT (12X4) RD CUS	0801524	1	UCT-WMT (15X4) RD CUS	0801533	1	UCT-WMT (18X4) RD CUS	0801541	1
UCT-WMT (12X4) OG CUS	0801525	1	UCT-WMT (15X4) OG CUS	0801534	1	UCT-WMT (18X4) OG CUS	0801543	1
UCT-WMT (12X4) YE CUS	0801523	1	UCT-WMT (15X4) YE CUS	0801531	1	UCT-WMT (18X4) YE CUS	0801540	1
UCT-WMT (12X4) VT CUS	0801528	1	UCT-WMT (15X4) VT CUS	0801536	1	UCT-WMT (18X4) VT CUS	0801545	1
UCT-WMT (12X4) BU CUS	0801529	1	UCT-WMT (15X4) BU CUS	0801537	1	UCT-WMT (18X4) BU CUS	0801546	1
UCT-WMT (12X4) GN CUS	0801527	1	UCT-WMT (15X4) GN CUS	0801535	1	UCT-WMT (18X4) GN CUS	0801544	1
Accessories			Accessories			Accessories		
THERMOMARK CARD-UCT-MAG7	0801734	1	THERMOMARK CARD-UCT-MAG7	0801734	1	THERMOMARK CARD-UCT-MAG7	0801734	1

Marking and labeling - MARKING system

Conductor and cable marking

UniCard conductor marking for marking collars

- The UCT-WMT ... UniCard labeling range includes markers for conductor marking with marking collars from the PATG/PATO ... system; see page 224
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Can be printed with:



Thermal transfer for sheets and cards



UV LED technology



30 markers with 23 x 4 mm lettering field size

Notes:

1) For ordering example, see page 359.

General data

Can be printed with:

Number of individual labels

Material

Inflammability class according to UL 94

Temperature range

[°C]

Components

THERMOMARK CARD PLUS • THERMOMARK CARD •

BLUemark CLED • BLUemark LED

30

PC V0

V0

-40 ... 120

free from silicone and halogen

Technical data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, with insert strips for PATG and PATO marking collars	white	UCT-WMT (23X4)	0801453	10
	red	UCT-WMT (23X4) RD	0801455	10
	orange	UCT-WMT (23X4) OG	0801456	10
	yellow	UCT-WMT (23X4) YE	0801454	10
	violet	UCT-WMT (23X4) VT	0801459	10
	blue	UCT-WMT (23X4) BU	0801460	10
	green	UCT-WMT (23X4) GN	0801457	10
UniCard, with insert strips for marking system, labeled acc. to customer specifications ¹⁾	white	UCT-WMT (23X4) CUS	0801547	1
	red	UCT-WMT (23X4) RD CUS	0801549	1
	orange	UCT-WMT (23X4) OG CUS	0801550	1
	yellow	UCT-WMT (23X4) YE CUS	0801548	1
	violet	UCT-WMT (23X4) VT CUS	0801552	1
	blue	UCT-WMT (23X4) BU CUS	0801553	1
	green	UCT-WMT (23X4) GN CUS	0801551	1
Accessories				
Magazine, for THERMOMARK CARD ..., for accommodating UCT-WMT ... sheets, UCT-EM (17X10)		THERMOMARK CARD-UCT-MAG7	0801734	1

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30 markers with 30 x 4 mm lettering field size

Technical data

THERMOMARK CARD PLUS • THERMOMARK CARD •
BLUEMARK CLED • BLUEMARK LED

30

PC V0

V0

-40 ... 120

free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
UCT-WMT (30X4)	0801422	10
UCT-WMT (30X4) RD	0801424	10
UCT-WMT (30X4) OG	0801425	10
UCT-WMT (30X4) YE	0801423	10
UCT-WMT (30X4) VT	0801427	10
UCT-WMT (30X4) BU	0801428	10
UCT-WMT (30X4) GN	0801426	10
UCT-WMT (30X4) CUS	0801507	1
UCT-WMT (30X4) RD CUS	0801509	1
UCT-WMT (30X4) OG CUS	0801510	1
UCT-WMT (30X4) YE CUS	0801508	1
UCT-WMT (30X4) VT CUS	0801512	1
UCT-WMT (30X4) BU CUS	0801514	1
UCT-WMT (30X4) GN CUS	0801511	1

Accessories

THERMOMARK CARD-UCT-MAG7	0801734	1
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Marking and labeling - MARKING system

Conductor and cable marking

UniCard slide-on conductor marking

Can be printed with:



Thermal transfer for sheets
and cards



UV LED technology



55 markers for conductor diameters from 1.5
to 4.7 mm

- The UCT-WMS ... UniCard labeling range includes markers that can be slid onto conductors
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the THERMOMARK CARD and BLUEMARK CLED
- The format automatically ensures printing with a high level of positional accuracy
- The markers support multiline labeling
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

¹⁾ For ordering example, see page 359.

General data

Can be printed with:

Material

Inflammability class according to UL 94

Temperature range

[°C]

Components

THERMOMARK CARD PLUS • THERMOMARK CARD • BLUE-MARK CLED • BLUEMARK LED
PC V0
V0
-40 ... 120
free from silicone and halogen

Technical data

Description

Color

Type

Order No.

Pcs. / Pkt.

UniCard, for labeling conductors with a diameter of 1.5 - 3.2 mm

55-section, lettering field size: 12 x 4 mm

white
yellow

UCT-WMS 3,2 (12X4)
UCT-WMS 3,2 (12X4) YE

0828570
0828572

8
8

45-section, lettering field size: 12 x 5.5 mm, for
conductors with a diameter of 2.5 - 4.7 mm

white
yellow

UCT-WMS 4,7 (12X5,5)

0828571

6

UniCard, for labeling conductors with a diameter of 1.5 - 3.2 mm,
labeled acc. to customer specifications¹⁾

55-section, lettering field size: 12 x 4 mm

white
yellow

UCT-WMS 3,2 (12X4) CUS
UCT-WMS 3,2 (12X4) YE CUS

0829951
0829952

1
1

45-section, lettering field size: 12 x 5.5 mm, for
conductors with a diameter of 2.5 - 4.7 mm

white
yellow

UCT-WMS 4,7 (12X5,5) CUS

0829953

1

UCT-WMS 4,7 (12X5,5) YE CUS

0829954

1

Accessories

Magazine, for THERMOMARK CARD ..., for accommodating:
UCT-WMS ...

THERMOMARK CARD-UCT-MAG3

5146613

1



UniSheet conductor marking for marking collars



Can be printed with:



Thermal transfer for sheets
and cards



112 markers
for a lettering field size of 10 x 4 mm

- The US-WMT ... UniSheet labeling range includes markers for conductor marking with marking collars from the PATG/PATO ... system
- The markers, which are supplied as uniform cards, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- Labeled insert strips are simply inserted into the collars. This protects the marking against contamination
- The perforated marking strips are easy to separate and can be easily fitted
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniSheet markers in accordance with your requirements

Notes:

For PATG/PATO... system marking collars, see page 224.

¹⁾ For ordering example, see page 359.

General data

Can be printed with:

Number of individual labels

Number of individual labels per strip

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

THERMOMARK CARD PLUS • THERMOMARK CARD

112

14

PVC

V0

-30 ... 80

DIN EN 61010-1 (VDE 0411-1)

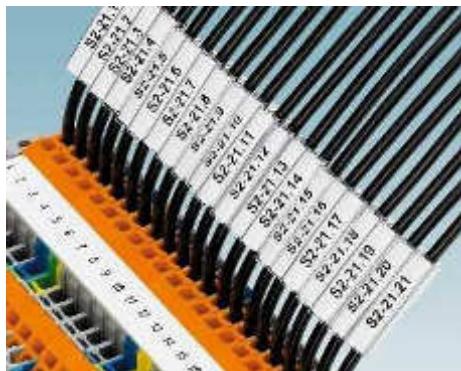
Silicone-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniSheet , with insert strips for PATG and PATO marking collars				
	white	US-WMT (10X4)	0828765	10
	red	US-WMT (10X4) RD	0829273	10
	orange	US-WMT (10X4) OG	0829274	10
	yellow	US-WMT (10X4) YE	0828952	10
	violet	US-WMT (10X4) VT	0829276	10
	blue	US-WMT (10X4) BU	0829277	10
	green	US-WMT (10X4) GN	0829278	10
UniSheet , with insert strips for marking system, labeled acc. to customer specifications ¹⁾				
	white	US-WMT (10X4) CUS	0829957	1
	red	US-WMT (10X4) RD CUS	0829958	1
	orange	US-WMT (10X4) OG CUS	0829959	1
	yellow	US-WMT (10X4) YE CUS	0829960	1
	violet	US-WMT (10X4) VT CUS	0829961	1
	blue	US-WMT (10X4) BU CUS	0829962	1
	green	US-WMT (10X4) GN CUS	0829963	1

Accessories

Magazine , for THERMOMARK CARD..., for accommodating all US-... materials		
THERMOMARK CARD-US-MAG1	5146451	1



Marking and labeling - MARKING system

Conductor and cable marking

UniSheet cable marking for marking collars

- The US-WMT ... UniSheet labeling range includes markers for conductor marking with marking collars from the PATG/PATO ... system
- Labeling service: Phoenix Contact can custom-label all UniSheet markers in accordance with your requirements

Notes:

For PATG/PATO... system marking collars, see page 224.

¹⁾ For ordering example, see page 359.



98 markers
for a lettering field size of 12 x 4 mm



84 markers
for a lettering field size of 15 x 4 mm

General data

Can be printed with:	THERMOMARK CARD PLUS • THERMOMARK CARD
Number of individual labels	98
Number of individual labels per strip	14
Material	PVC
Inflammability class according to UL 94	V0
Temperature range	-30 ... 80 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone-free

Technical data

THERMOMARK CARD PLUS • THERMOMARK CARD

98

14

PVC

V0

-30 ... 80

DIN EN 61010-1 (VDE 0411-1)

Silicone-free

Technical data

THERMOMARK CARD PLUS • THERMOMARK CARD

84

14

PVC

V0

-30 ... 80

DIN EN 61010-1 (VDE 0411-1)

Silicone-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UniSheet, with insert strips for PATG and PATO marking collars							
	white	US-WMT (12X4)	0828766	10	US-WMT (15X4)	0828767	10
	red	US-WMT (12X4) RD	0829280	10	US-WMT (15X4) RD	0829287	10
	orange	US-WMT (12X4) OG	0829281	10	US-WMT (15X4) OG	0829288	10
	yellow	US-WMT (12X4) YE	0828953	10	US-WMT (15X4) YE	0828954	10
	violet	US-WMT (12X4) VT	0829283	10	US-WMT (15X4) VT	0829290	10
	blue	US-WMT (12X4) BU	0829284	10	US-WMT (15X4) BU	0829291	10
	green	US-WMT (12X4) GN	0829285	10	US-WMT (15X4) GN	0829292	10
UniSheet, with insert strips for marking system, labeled acc. to customer specifications¹⁾							
	white	US-WMT (12X4) CUS	0829964	1	US-WMT (15X4) CUS	0829971	1
	red	US-WMT (12X4) RD CUS	0829965	1	US-WMT (15X4) RD CUS	0829972	1
	orange	US-WMT (12X4) OG CUS	0829966	1	US-WMT (15X4) OG CUS	0829973	1
	yellow	US-WMT (12X4) YE CUS	0829967	1	US-WMT (15X4) YE CUS	0829974	1
	violet	US-WMT (12X4) VT CUS	0829968	1	US-WMT (15X4) VT CUS	0829975	1
	blue	US-WMT (12X4) BU CUS	0829969	1	US-WMT (15X4) BU CUS	0829976	1
	blue	US-WMT (12X4) GN CUS	0829970	1	US-WMT (15X4) GN CUS	0829977	1

Accessories

Magazine, for THERMOMARK CARD..., for accommodating all US... materials	THERMOMARK CARD-US-MAG1	5146451	1	THERMOMARK CARD-US-MAG1	5146451	1
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PRINTED
FOR YOUPRINTED
FOR YOUPRINTED
FOR YOU

70 markers
for a lettering field size of 18 x 4 mm



56 markers
for a lettering field size of 23 x 4 mm



42 markers
for a lettering field size of 30 x 4 mm

Technical data			Technical data			Technical data		
THERMOMARK CARD PLUS • THERMOMARK CARD			THERMOMARK CARD PLUS • THERMOMARK CARD			THERMOMARK CARD PLUS • THERMOMARK CARD		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
US-WMT (18X4)	0828768	10	US-WMT (23X4)	0828769	10	US-WMT (30X4)	0828770	10
US-WMT (18X4) RD	0829294	10	US-WMT (23X4) RD	0829301	10	US-WMT (30X4) RD	0829308	10
US-WMT (18X4) OG	0829295	10	US-WMT (23X4) OG	0829302	10	US-WMT (30X4) OG	0829309	10
US-WMT (18X4) YE	0828955	10	US-WMT (23X4) YE	0828956	10	US-WMT (30X4) YE	0828957	10
US-WMT (18X4) VT	0829297	10	US-WMT (23X4) VT	0829304	10	US-WMT (30X4) VT	0829311	10
US-WMT (18X4) BU	0829298	10	US-WMT (23X4) BU	0829305	10	US-WMT (30X4) BU	0829312	10
US-WMT (18X4) GN	0829299	10	US-WMT (23X4) GN	0829306	10	US-WMT (30X4) GN	0829313	10
US-WMT (18X4) CUS	0829978	1	US-WMT (23X4) CUS	0829985	1	US-WMT (30X4) CUS	0829992	1
US-WMT (18X4) RD CUS	0829979	1	US-WMT (23X4) RD CUS	0829986	1	US-WMT (30X4) RD CUS	0829993	1
US-WMT (18X4) OG CUS	0829980	1	US-WMT (23X4) OG CUS	0829987	1	US-WMT (30X4) OG CUS	0829994	1
US-WMT (18X4) YE CUS	0829981	1	US-WMT (23X4) YE CUS	0829988	1	US-WMT (30X4) YE CUS	0829995	1
US-WMT (18X4) VT CUS	0829982	1	US-WMT (23X4) VT CUS	0829989	1	US-WMT (30X4) VT CUS	0829996	1
US-WMT (18X4) BU CUS	0829983	1	US-WMT (23X4) BU CUS	0829990	1	US-WMT (30X4) BU CUS	0829997	1
US-WMT (18X4) GN CUS	0829984	1	US-WMT (23X4) GN CUS	0829991	1	US-WMT (30X4) GN CUS	0829998	1
Accessories			Accessories			Accessories		
THERMOMARK CARD-US-MAG1	5146451	1	THERMOMARK CARD-US-MAG1	5146451	1	THERMOMARK CARD-US-MAG1	5146451	1

Marking and labeling - MARKING system

Conductor and cable marking

UniSheet conductor marking for assembly with cable binders



Can be printed with:



Thermal transfer for sheets and cards



Unlabeled

- The US-WMTB... UniSheet labeling range includes markers that can be secured using standard cable binders
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The perforated marking strips are easy to separate and can be easily fitted
- The sheets provide space for including function texts

Notes:

For corresponding cable binders, see page 574 onwards.

General data

Can be printed with:

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

THERMOMARK CARD PLUS • THERMOMARK CARD

PVC

V0

-30 ... 80

DIN EN 61010-1 (VDE 0411-1)

Silicone-free

Technical data

Description

Type

Order No.

Pcs. / Pkt.

UniSheet, with markers for attachment using cable binders, for a conductor diameter ≥ 13 mm

35-section, lettering field size: 24 x 5 mm

white

US-WMTB (24X5)

0828771

10

red

US-WMTB (24X5) RD

0829320

10

orange

US-WMTB (24X5) OG

0829321

10

yellow

US-WMTB (24X5) YE

0828958

10

violet

US-WMTB (24X5) VT

0829323

10

blue

US-WMTB (24X5) BU

0829324

10

green

US-WMTB (24X5) GN

0829325

10

white

US-WMTB (29X8)

0828772

10

red

US-WMTB (29X8) RD

0829327

10

orange

US-WMTB (29X8) OG

0829328

10

yellow

US-WMTB (29X8) YE

0828959

10

violet

US-WMTB (29X8) VT

0829330

10

blue

US-WMTB (29X8) BU

0829331

10

green

US-WMTB (29X8) GN

0829332

10

white

US-WMTB (44X15)

0828773

10

red

US-WMTB (44X15) RD

0829334

10

orange

US-WMTB (44X15) OG

0829335

10

yellow

US-WMTB (44X15) YE

0828960

10

violet

US-WMTB (44X15) VT

0829337

10

blue

US-WMTB (44X15) BU

0829338

10

green

US-WMTB (44X15) GN

0829339

10

Accessories

Magazine, for THERMOMARK CARD..., for accommodating all US-... materials

THERMOMARK CARD-US-MAG1

5146451

1



UniSheet conductor marking for assembly with cable binders

- The US-WMTB... conductor markers can also be supplied labeled according to customer requirements

Notes:

¹⁾ For ordering example, see page 359.



Labeled according to customer specifications

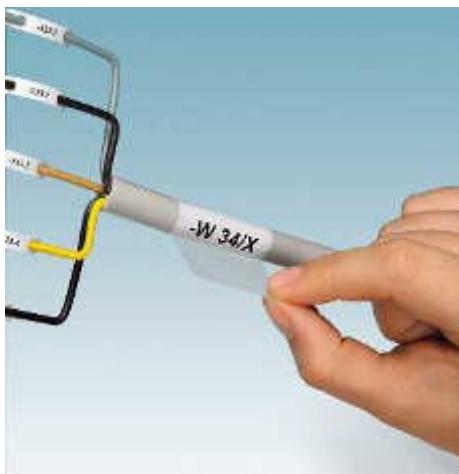
Technical data				
Ordering data				
Description	Color	Type	Order No.	Pcs. / Pkt.
UniSheet, with markers for attachment using cable binders, labeled acc. to customer specifications ¹⁾ 35-section, lettering field size: 24 x 5 mm, for conductor diameter ≥ 13 mm	white red orange yellow violet blue blue	US-WMTB (24X5) CUS US-WMTB (24X5) RD CUS US-WMTB (24X5) OG CUS US-WMTB (24X5) YE CUS US-WMTB (24X5) VT CUS US-WMTB (24X5) BU CUS US-WMTB (24X5) GN CUS	0830004 0830005 0830006 0830007 0830008 0830009 0830010	1 1 1 1 1 1 1
24-section, lettering field size: 29 x 8 mm, for conductor diameter ≥ 13 mm	white red orange yellow violet blue blue	US-WMTB (29X8) CUS US-WMTB (29X8) RD CUS US-WMTB (29X8) OG CUS US-WMTB (29X8) YE CUS US-WMTB (29X8) VT CUS US-WMTB (29X8) BU CUS US-WMTB (29X8) GN CUS	0830011 0830012 0830013 0830014 0830015 0830016 0830017	1 1 1 1 1 1 1
12-section, lettering field size: 44 x 15 mm, for conductor diameter ≥ 4 mm	white red orange yellow violet blue green	US-WMTB (44X15) CUS US-WMTB (44X15) RD CUS US-WMTB (44X15) OG CUS US-WMTB (44X15) YE CUS US-WMTB (44X15) VT CUS US-WMTB (44X15) BU CUS US-WMTB (44X15) GN CUS	0830018 0830019 0830020 0830021 0830022 0830023 0830024	1 1 1 1 1 1 1



Marking and labeling - MARKING system

Conductor and cable marking

Self-adhesive conductor marking with transparent protective foil Can be printed with:



Thermal transfer for sheets and cards



Marker for conductor diameters of up to 36 mm

- The US-WML ... cable marker labels consist of a labeling field and a transparent protective foil
- The protective foil is wound over the labeling and provides permanent protection against dirt and abrasion
- The cable marker labels do not increase the cross section of the cable, allowing the cable to be subsequently drawn through cable ducts, for example
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- Quick and easy handling
- Resistant to solvents

General data

Can be printed with:

Material

Temperature range

Wipe resistance

Components

[°C]

THERMOMARK CARD PLUS • THERMOMARK CARD

PVC

-50 ... 110

DIN EN 61010-1 (VDE 0411-1)

Silicone-free

Technical data

Description	Color	Type	Order No.	Pcs. / Pkt.
Cable marker labels				
32-section, lettering field size: 13 x 13 mm, conductor diameter < 6.0 mm	white	US-WML 6 (13X13)	0800472	10
8-section, lettering field size: 19 x 25 mm, conductor diameter < 14.0 mm	white	US-WML 14 (25X19)	0800473	10
4-section, lettering field size: 25 x 25 mm, conductor diameter < 36.0 mm	white	US-WML 36 (25X25)	0800474	10

Ordering data



Self-adhesive conductor marking with transparent protective foil



Can be printed with:



Laser



Plotter



Marker for conductor diameter up to 36 mm

- WML ... cable marker labels consist of a marking field and a transparent protective foil
- The protective foil is wound over the labeling and provides permanent protection against dirt and abrasion
- The cable marker labels do not increase the cross section of the cable, allowing the cable to be subsequently drawn through cable ducts, for example
- Quick and easy handling
- Resistant to solvents

Notes:

Print image may vary depending on laser printer.

¹⁾ For ordering example, see page 359.

General data

Can be printed with:

Material

Temperature range

[°C]

Wipe resistance

-40 ... 150

Components

DIN EN 61010-1 (VDE 0411-1)

Free from halogen and cadmium

Technical data

Description	Color	Type	Order No.	Pcs. / Pkt.
Cable marker labels, sheet format: A4, self-adhesive				
1 sheet = 168 labels, up to 3.0 mm Ø	white	WML 3 (13X10)A4	0830687	1
1 sheet = 168 labels, up to 3.0 mm Ø	yellow	WML 3 (13X10)A4 YE	0830688	1
1 sheet = 77 labels, up to 5.0 mm Ø	white	WML 5 (25X10)A4	0830689	1
1 sheet = 77 labels, up to 5.0 mm Ø	yellow	WML 5 (25X10)A4 YE	0830690	1
1 sheet = 56 labels, up to 7.5 mm Ø	white	WML 7,5 (25X13)A4	0830691	1
1 sheet = 56 labels, up to 7.5 mm Ø	yellow	WML 7,5 (25X13)A4 YE	0830692	1
1 sheet = 28 labels, up to 14 mm Ø	white	WML 14 (25X19)A4	0830693	1
1 sheet = 28 labels, up to 14 mm Ø	yellow	WML 14 (25X19)A4 YE	0830694	1
1 sheet = 10 labels, up to 22 mm Ø	white	WML 22 (35X25)A4	0830695	1
1 sheet = 10 labels, up to 22 mm Ø	yellow	WML 22 (35X25)A4 YE	0830696	1
1 sheet = 14 labels, up to 36 mm Ø	white	WML 36 (25X38)A4	0830697	1
1 sheet = 14 labels, up to 36 mm Ø	yellow	WML 36 (25X38)A4 YE	0830698	1
Cable marker labels, self-adhesive, labeled according to customer requirements¹⁾				
1 sheet = 168 labels, up to 3.0 mm Ø	white	WML 3 (13X10)A4 CUS	0830699	1
1 sheet = 168 labels, up to 3.0 mm Ø	yellow	WML 3 (13X10)A4 YE CUS	0830700	1
1 sheet = 77 labels, up to 5.0 mm Ø	white	WML 5 (25X10)A4 CUS	0830701	1
1 sheet = 77 labels, up to 5.0 mm Ø	yellow	WML 5 (25X10)A4 YE CUS	0830702	1
1 sheet = 56 labels, up to 6 mm Ø	white	WML 6 (25X13)A4 CUS	0830703	1
1 sheet = 56 labels, up to 6 mm Ø	yellow	WML 6 (25X13)A4 YE CUS	0830704	1
1 sheet = 28 labels, up to 14 mm Ø	white	WML 14 (25X19)A4 CUS	0830705	1
1 sheet = 28 labels, up to 14 mm Ø	yellow	WML 14 (25X19)A4 YE CUS	0830706	1
1 sheet = 10 labels, up to 22 mm Ø	white	WML 22 (35X25)A4 CUS	0830707	1
1 sheet = 10 labels, up to 22 mm Ø	yellow	WML 22 (35X25)A4 YE CUS	0830708	1
1 sheet = 14 labels, up to 36 mm Ø	white	WML 36 (25X38)A4 CUS	0830709	1



Marking and labeling - MARKING system

Conductor and cable marking

Self-adhesive conductor marking with transparent protective foil

Can be printed with:



Thermal transfer for rolls



Marker for conductor diameters of up to 46 mm, unlabeled

- The cable marker labels consist of a labeling field and a transparent protective foil
- The protective foil is wound over the labeling and provides permanent protection against dirt and abrasion
- The cable marker labels do not increase the cross section of the cable, allowing the cable to be subsequently drawn through cable ducts, for example
- High-quality labeling image created by thermal transfer printing
- Quick and easy handling
- Resistant to solvents

General data

Can be printed with:

Material
Temperature range
Wipe resistance
Components

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
PVC
-50 ... 110
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Technical data

Description

Color

Description	Type	Order No.	Pcs. / Pkt.
Cable marker labels			
5000 labels, up to 3 mm Ø	WML 3 (13X10)R	0800073	1
3000 labels, up to 5 mm Ø	WML 5 (25X10)R	0817523	1
3000 labels, up to 5 mm Ø	WML 5 (25X10)R YE	0830673	1
7000 labels, up to 6 mm Ø	WML 6 (13X13)R	0816252	1
7000 labels, up to 6 mm Ø	WML 6 (13X13)R YE	0830674	1
4000 labels, up to 7.5 mm Ø	WML 7.5 (13X13)R	0800074	1
1500 labels, up to 7.5 mm Ø	WML 7.5 (17X9)R	0828444	1
2100 labels, up to 7.5 mm Ø	WML 7.5 (25X13)R	0800075	1
1000 labels, up to 12 mm Ø	WML 12 (25X19)R	0800076	1
1500 labels, up to 14 mm Ø	WML 14 (25X19)R	0817536	1
1500 labels, up to 14 mm Ø	WML 14 (25X19)R YE	0817549	1
1000 labels, up to 14 mm Ø	WML 14 (38X19)R	0817552	1
1500 labels, up to 14 mm Ø	WML 14 (38X19)R YE	0830675	1
2500 labels, up to 18 mm Ø	WML 18 (12X12)R	0817507	1
500 labels, up to 20 mm Ø	WML 20 (31X25)R	0828457	1
900 labels, up to 22 mm Ø	WML 22 (25X25)R	0800078	1
500 labels, up to 36 mm Ø	WML 36 (25X38)R	0817510	1
250 labels, up to 46 mm Ø	WML 46 (25X38)R	0800067	1
Cable marker labels, on large roll			
10,000 labels, up to 5 mm Ø	WML 5 (25X10)RL	0830676	1
15,000 labels, up to 6 mm Ø	WML 6 (13X13)RL	0830677	1
5000 labels, up to 14 mm Ø	WML 14 (25X19)RL	0830678	1
3000 labels, up to 14 mm Ø	WML 14 (38X19)RL	0830679	1



Self-adhesive conductor marking with transparent protective foil

- All WML ... cable marker labels can also be supplied labeled according to customer requirements

Notes:

¹⁾ For ordering example, see page 359.



**Markers for conductor diameters of up to 36 mm,
labeled acc. to customer specifications**

General data

Material	PVC
Temperature range	[°C]
Wipe resistance	-50 ... 110
Components	DIN EN 61010-1 (VDE 0411-1) Silicone-free

Technical data

Description		Color	Type	Order No.	Pcs. / Pkt.
Cable marker labels, labeled according to customer requirements¹⁾					
Up to 3 mm Ø, 4 labels per strip	white	WML 3 (13X10)R CUS		0824884	1
Up to 5 mm Ø, 3 labels per strip	white	WML 5 (25X10)R CUS		0824885	1
Up to 5 mm Ø, 3 labels per strip	yellow	WML 5 (25X10)R YE CUS		0830680	1
Up to 6 mm Ø, 7 labels per strip	white	WML 6 (13X13)R CUS		0824886	1
Up to 6 mm Ø, 7 labels per strip	yellow	WML 6 (13X13)R YE CUS		0830681	1
Up to 7.5 mm Ø, 7 labels per strip	white	WML 7,5 (13X13)R CUS		0824887	1
Up to 7.5 mm Ø, 4 labels per strip	white	WML 7,5 (17X9)R CUS		0828991	1
Up to 7.5 mm Ø, 3 labels per strip	white	WML 7,5 (25X13)R CUS		0824888	1
Up to 12 mm Ø, 3 labels per strip	white	WML 12 (25X19)R CUS		0824889	1
Up to 14 mm Ø, 3 labels per strip	white	WML 14 (25X19)R CUS		0824890	1
Up to 14 mm Ø, 3 labels per strip	yellow	WML 14 (25X19)R YE CUS		0824891	1
Up to 14 mm Ø, 2 labels per strip	white	WML 14 (38X19)R CUS		0824892	1
Up to 14 mm Ø, 2 labels per strip	yellow	WML 14 (38X19)R YE CUS		0830682	1
Up to 18 mm Ø, 7 labels per strip	white	WML 18 (12X12)R CUS		0824894	1
Up to 20 mm Ø, 2 labels per strip	white	WML 20 (31X25)R CUS		0828992	1
Up to 22 mm Ø, 3 labels per strip	white	WML 22 (25X25)R CUS		0824895	1
Up to 36 mm Ø, 3 labels per strip	white	WML 36 (25X38)R CUS		0824896	1

Marking and labeling - MARKING system

Conductor and cable marking

Self-adhesive conductor marking with transparent protective foil, halogen-free

N



Can be printed with:



Thermal transfer for rolls



Marker for conductor diameters of up to
36 mm

- The halogen-free cable marker labels consist of a labeling field and a transparent protective foil
- The protective foil is wound over the labeling and provides permanent protection against dirt and abrasion
- The cable marker labels do not increase the cross section of the cable, allowing the cable to be subsequently drawn through cable ducts, for example
- High-quality labeling image created by thermal transfer printing
- Quick and easy handling
- Resistant to solvents

General data

Can be printed with:

Material
Temperature range
Wipe resistance
Components

[°C]

THERMOMARK ROLL • THERMOMARK ROLL X1
PVC
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Technical data

Description

Color

Type

Order No.

Pcs. / Pkt.

Cable marker labels, halogen-free

5000 labels, up to 3 mm Ø	white	WML HF 3(13X10)R	0830812	1
5000 labels, up to 3 mm Ø	yellow	WML HF 3(13X10)R YE	0830813	1
3000 labels, up to 5 mm Ø	white	WML HF 5(25X10)R	0830814	1
3000 labels, up to 5 mm Ø	yellow	WML HF 5(25X10)R YE	0830815	1
2100 labels, up to 7.5 mm Ø	white	WML HF 7,5(25X13)R	0830816	1
2100 labels, up to 7.5 mm Ø	yellow	WML HF 7,5(25X13)R YE	0830817	1
1500 labels, up to 14 mm Ø	white	WML HF 14(25X19)R	0830818	1
1500 labels, up to 14 mm Ø	yellow	WML HF 14(25X19)R YE	0830819	1
900 labels, up to 22 mm Ø	white	WML HF 22(25X25)R	0830820	1
900 labels, up to 22 mm Ø	yellow	WML HF 22(25X25)R YE	0830821	1
500 labels, up to 36 mm Ø	white	WML HF 36(25X38)R	0830822	1
500 labels, up to 36 mm Ø	yellow	WML HF 36(25X38)R YE	0830823	1



Self-adhesive conductor marking with transparent protective foil, halogen-free

- All WML HF ... cable marker labels can also be supplied labeled according to customer requirements

Notes:

¹⁾ For ordering example, see page 359.



Labeled according to customer specifications

Technical data				
Ordering data				
Description	Color	Type	Order No.	Pcs. / Pkt.
Cable marker labels, halogen-free, labeled according to customer specifications¹⁾				
Up to 3 mm Ø, 4 labels per strip	white	WML HF 3(13X10)R CUS	0830824	1
Up to 3 mm Ø, 4 labels per strip	yellow	WML HF 3(13X10)R YE CUS	0830825	1
Up to 5 mm Ø, 3 labels per strip	white	WML HF 5(25X10)R CUS	0830826	1
Up to 5 mm Ø, 3 labels per strip	yellow	WML HF 5(25X10)R YE CUS	0830827	1
Up to 7.5 mm Ø, 3 labels per strip	white	WML HF 7,5(25X13)R CUS	0830828	1
Up to 7.5 mm Ø, 3 labels per strip	yellow	WML HF 7,5(25X13)R YE CUS	0830829	1
Up to 14 mm Ø, 3 labels per strip	white	WML HF 14(25X19)R CUS	0830831	1
Up to 14 mm Ø, 3 labels per strip	yellow	WML HF 14(25X19)R YE CUS	0830832	1
Up to 22 mm Ø, 3 labels per strip	white	WML HF 22(25X25)R CUS	0830833	1
Up to 22 mm Ø, 3 labels per strip	yellow	WML HF 22(25X25)R YE CUS	0830834	1
Up to 36 mm Ø, 3 labels per strip	white	WML HF 36(25X38)R CUS	0830835	1
Up to 36 mm Ø, 3 labels per strip	yellow	WML HF 36(25X38)R YE CUS	0830836	1



Marking and labeling - MARKING system

Conductor and cable marking

Self-adhesive conductor marking as a flag, horizontal



Can be printed with:



Thermal transfer for rolls



Marker for conductor diameters of up to 6 mm

N

The WML-FLAGV... conductor marking flags support large-surface marking of conductors with a diameter of up to 6 mm parallel to the conductor direction. They are characterized by:

- Their ability to be printed on both sides
- High-quality labeling image created by thermal transfer printing
- Quick and easy handling
- Resistance to solvents
- Labeling service: Phoenix Contact can custom-label all conductor markers in accordance with your requirements

Notes:

1) For ordering example, see page 359.

General data

Can be printed with:

Material
Temperature range
Wipe resistance
Components

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Polyolefine
-40 ... 60
DIN EN 61010-1 (VDE 0411-1)
Free from halogen and cadmium

Description

Color

Type

Order No.

Pcs. / Pkt.

Cable marking flags
up to 6 mm Ø, lettering field size: 20 x 10 mm,
2500 labels per roll
up to 6 mm Ø, lettering field size: 30 x 10 mm,
2500 labels per roll
Cable marking flags, **labeled according to customer specifications¹⁾**
up to 6 mm Ø, lettering field size: 20 x 10 mm,
1 label per strip
up to 6 mm Ø, lettering field size: 30 x 10 mm,
1 label per strip

white **WML-FLAG 6 (20X10)R**

0830711

1

white **WML-FLAG 6 (30X10)R**

0830712

1

white **WML-FLAG 6 (20X10)R CUS**

0830715

1

white **WML-FLAG 6 (30X10)R CUS**

0830716

1

Self-adhesive conductor marking as a flag, vertical


The WML-FLAGV... conductor marking flags support large-surface marking of conductors with a diameter of up to 6 mm perpendicular to the conductor direction. They are characterized by:

- Their ability to be printed on both sides
- High-quality labeling image created by thermal transfer printing
- Quick and easy handling
- Resistance to solvents
- Labeling service: Phoenix Contact can custom-label all conductor markers in accordance with your requirements

Notes:

¹⁾ For ordering example, see page 359.

Can be printed with:



Thermal transfer for rolls



Marker for conductor diameters of up to 6 mm

Technical data**General data**

Can be printed with:

Material	[°C]
Temperature range	
Wipe resistance	

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMO-MARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Polyolefine
-40 ... 60
DIN EN 61010-1 (VDE 0411-1)
Free from halogen and cadmium

Description**Color****Type****Order No.****Pcs. / Pkt.**

Cable marking flags
up to 6 mm Ø, lettering field size: 20 x 10 mm,
2500 labels per roll
up to 6 mm Ø, lettering field size: 30 x 10 mm,
2500 labels per roll

white	WML-FLAGV 6 (20X10)R	0830713	1
white	WML-FLAGV 6 (30X10)R	0830714	1

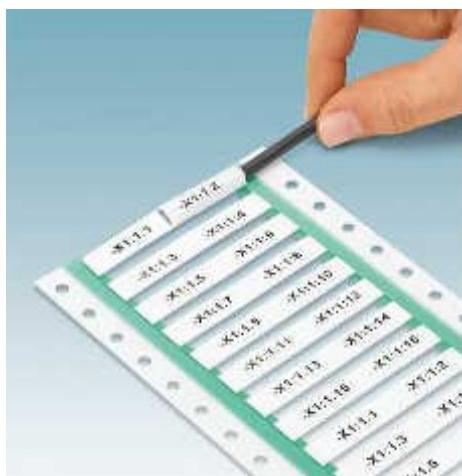
Cable marking flags, **labeled according to customer specifications¹⁾**
up to 6 mm Ø, lettering field size: 20 x 10 mm,
3 labels per strip
up to 6 mm Ø, lettering field size: 30 x 10 mm,
3 labels per strip

white	WML-FLAGV 6 (20X10)R CUS	0830717	1
white	WML-FLAGV 6 (30X10)R CUS	0830718	1

Marking and labeling - MARKING system

Conductor and cable marking

Pre-assembled shrink sleeves



- The WMS ... shrink sleeves permanently identify conductors and cables
 - The sleeves are pre-assembled for optimum use of material
 - Up to four markers per tube are separated by perforation
 - The conductor to be labeled is easily threaded through the sleeve and fixed by shrinking the sleeve
 - The sleeves remain flexible after shrinking
 - The shrink sleeves offer the conductors additional electrical insulation and mechanical protection
- The following standards are satisfied:
- UL 224 (125°C, 600 V, VW-1)
 - CSA.C22.2 No. 198.1 (125°C, 600 V, VW-1)
 - MIL-STD-202G, SAE AMS-DTL-23053, SAE AS-81531

Notes:

The special THEMOMARK-RIBBON ... WMSU is required for marking WMS ... shrink sleeves, see Printers, page 38.

Can be printed with:



Thermal transfer for rolls



Conductor cross sections from 0.8 to 38 mm,
white and yellow

Technical data

General data

Can be printed with:

Material	
Temperature range	[°C]
Wipe resistance	-55 ... 135
Components	DIN EN 61010-1 (VDE 0411-1)
Shrink rate	Halogen-free 3:1

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMO-MARK X1.1 • THERMOMARK X1.2

Polyolefin

-55 ... 135

DIN EN 61010-1 (VDE 0411-1)

Halogen-free

3:1

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Shrink sleeve , for conductor diameters 0.8 - 2.4 mm				
1 roll = 1000 markers, 15 mm long	white	WMS 2,4 (15X4)R	0800379	1
	yellow	WMS 2,4 (15X4)R YE	0800412	1
1 roll = 500 markers, 30 mm long	white	WMS 2,4 (30X4)R	0800373	1
	yellow	WMS 2,4 (30X4)R YE	0800407	1
1 roll = 250 markers, 60 mm long	white	WMS 2,4 (60X4)R	0800363	1
	yellow	WMS 2,4 (60X4)R YE	0800398	1
Shrink sleeve , for conductor diameters 1.0 - 3.2 mm				
1 roll = 1000 markers, 15 mm long	white	WMS 3,2 (15X5)R	0800380	1
	yellow	WMS 3,2 (15X5)R YE	0800413	1
1 roll = 500 markers, 30 mm long	white	WMS 3,2 (30X5)R	0800374	1
	yellow	WMS 3,2 (30X5)R YE	0800408	1
1 roll = 250 markers, 60 mm long	white	WMS 3,2 (60X5)R	0800364	1
	yellow	WMS 3,2 (60X5)R YE	0800399	1
Shrink sleeve , for conductor diameters 1.6 - 4.8 mm				
1 roll = 1000 markers, 15 mm long	white	WMS 4,8 (15X9)R	0800382	1
	yellow	WMS 4,8 (15X9)R YE	0800414	1
1 roll = 500 markers, 30 mm long	white	WMS 4,8 (30X9)R	0800375	1
	yellow	WMS 4,8 (30X9)R YE	0800409	1
1 roll = 250 markers, 60 mm long	white	WMS 4,8 (60X9)R	0800366	1
	yellow	WMS 4,8 (60X9)R YE	0800400	1
Shrink sleeve , for conductor diameters 2.1 - 6.4 mm				
1 roll = 500 markers, 30 mm long	white	WMS 6,4 (30X10)R	0800376	1
	yellow	WMS 6,4 (30X10)R YE	0800410	1
1 roll = 250 markers, 60 mm long	white	WMS 6,4 (60X10)R	0800367	1
	yellow	WMS 6,4 (60X10)R YE	0800401	1
Shrink sleeve , for conductor diameters 3.2 - 9.5 mm				
1 roll = 500 markers, 30 mm long	white	WMS 9,5 (30X16)R	0800377	1
	yellow	WMS 9,5 (30X16)R YE	0800411	1
1 roll = 250 markers, 60 mm long	white	WMS 9,5 (60X16)R	0800368	1
	yellow	WMS 9,5 (60X16)R YE	0800402	1
Shrink sleeve , for conductor diameters 4.2 - 12.7 mm				
1 roll = 250 markers, 60 mm long	white	WMS 12,7 (60X20)R	0800369	1
	yellow	WMS 12,7 (60X20)R YE	0800403	1
Shrink sleeve , for conductor diameters 6.4 - 19.1 mm				
1 roll = 250 markers, 60 mm long	white	WMS 19,1 (60X30)R	0800370	1
	yellow	WMS 19,1 (60X30)R YE	0800404	1
Shrink sleeve , for conductor diameters 8.5 - 25.4 mm				
1 roll = 250 markers, 60 mm long	white	WMS 25,4 (60X40)R	0800371	1
	yellow	WMS 25,4 (60X40)R YE	0800405	1
Shrink sleeve , for conductor diameters 12.7 - 38.1 mm				
1 roll = 250 markers, 60 mm long	white	WMS 38,1 (60X60)R	0800372	1
	yellow	WMS 38,1 (60X60)R YE	0800406	1



Pre-assembled shrink sleeves

Notes:
The special THEMOMARK-RIBBON ... WMSU is required for marking WMS ... shrink sleeves, see Printers, page 38.
The external THERMOMARK ROLL-ERH media hub is required for RL rolls, see Printers, page 38. The external THERMOMARK-ERH 500 media hub is required for RXL rolls, see Printers, page 38.

Conductor cross sections
from 0.8 to 4.8 mm, RL roll, whiteConductor cross sections
from 0.8 to 4.8 mm, RXL roll, white

General data
Can be printed with:
Material
Temperature range
Wipe resistance
Components
Shrink rate

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 •
THERMOMARK X1.1 • THERMOMARK X1.2
Polyolefine
-55 ... 135
DIN EN 61010-1 (VDE 0411-1)
Halogen-free
3:1

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 •
THERMOMARK X1.1 • THERMOMARK X1.2
Polyolefine
-55 ... 135
DIN EN 61010-1 (VDE 0411-1)
Halogen-free
3:1

Ordering data

Type	Order No.	Pcs. / Pkt.
WMS 2,4 (15X4)RL	0800389	1
WMS 2,4 (30X4)RL	0800386	1
WMS 2,4 (60X4)RL	0800383	1
WMS 3,2 (15X5)RL	0800390	1
WMS 3,2 (30X5)RL	0800387	1
WMS 3,2 (60X5)RL	0800384	1
WMS 4,8 (15X9)RL	0800391	1
WMS 4,8 (30X9)RL	0800388	1
WMS 4,8 (60X9)RL	0800385	1

Type	Order No.	Pcs. / Pkt.
WMS 2,4 (15X4)RXL	0800396	1
WMS 2,4 (30X4)RXL	0800394	1
WMS 2,4 (60X4)RXL	0800392	1
WMS 3,2 (15X5)RXL		
WMS 3,2 (30X5)RXL		
WMS 3,2 (60X5)RXL		
WMS 4,8 (15X9)RXL	0800397	1
WMS 4,8 (30X9)RXL	0800395	1
WMS 4,8 (60X9)RXL	0800393	1

Marking and labeling - MARKING system

Conductor and cable marking

Pre-assembled shrink sleeves, labeled acc. to customer specifications



All WMS ... pre-assembled shrink sleeves can be supplied labeled according to customer requirements.

The following standards are satisfied:

- UL 224 (125°C, 600 V, VW-1)
- CSA.C22.2 No. 198.1 (125°C, 600 V, VW-1)
- MIL-STD-202G, SAE AMS-DTL-23053, SAE AS-81531

Notes:

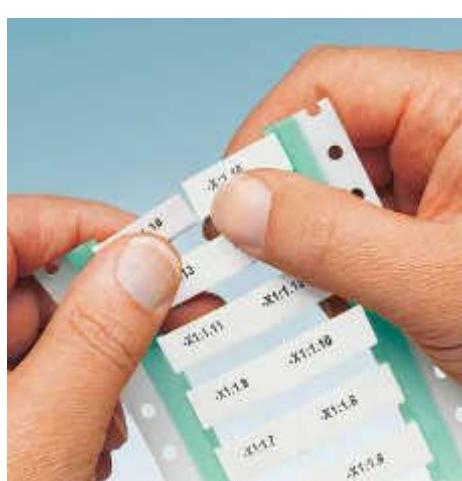
1) For ordering example, see page 359.

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Conductor cross sections from 0.8 to 38 mm, white

Technical data			
Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Shrink sleeve, for conductor diameters 0.8 - 2.4 mm, labeled according to customer requirements¹⁾ 4 markers per strip, 15 mm long	WMS 2,4 (15X4)R CUS	0800752	1
2 markers per strip, 30 mm long	WMS 2,4 (30X4)R CUS	0800745	1
1 marker per strip, 60 mm long	WMS 2,4 (60X4)R CUS	0800736	1
Shrink sleeve, for conductor diameters 1.0 - 3.2 mm, labeled according to customer requirements¹⁾ 4 markers per strip, 15 mm long	WMS 3,2 (15X5)R CUS	0800753	1
2 markers per strip, 30 mm long	WMS 3,2 (30X5)R CUS	0800746	1
1 marker per strip, 60 mm long	WMS 3,2 (60X5)R CUS	0800737	1
Shrink sleeve, for conductor diameters 1.6 - 4.8 mm, labeled according to customer requirements¹⁾ 4 markers per strip, 15 mm long	WMS 4,8 (15X9)R CUS	0800754	1
2 markers per strip, 30 mm long	WMS 4,8 (30X9)R CUS	0800748	1
1 marker per strip, 60 mm long	WMS 4,8 (60X9)R CUS	0800738	1
Shrink sleeve, for conductor diameters 2.1 - 6.4 mm, labeled according to customer requirements¹⁾ 2 markers per strip, 30 mm long	WMS 6,4 (30X10)R CUS	0800749	1
1 marker per strip, 60 mm long	WMS 6,4 (60X10)R CUS	0800739	1
Shrink sleeve, for conductor diameters 3.2 - 9.5 mm, labeled according to customer requirements¹⁾ 2 markers per strip, 30 mm long	WMS 9,5 (30X16)R CUS	0800751	1
1 marker per strip, 60 mm long	WMS 9,5 (60X16)R CUS	0800740	1
Shrink sleeve, for conductor diameters 4.2 - 12.7 mm, labeled according to customer requirements¹⁾ 1 marker per strip, 60 mm long	WMS 12,7 (60X20)R CUS	0800741	1
Shrink sleeve, for conductor diameters 6.4 - 19.1 mm, labeled according to customer requirements¹⁾ 1 marker per strip, 60 mm long	WMS 19,1 (60X30)R CUS	0800742	1
Shrink sleeve, for conductor diameters 8.5 - 25.4 mm, labeled according to customer requirements¹⁾ 1 marker per strip, 60 mm long	WMS 25,4 (60X40)R CUS	0800743	1
Shrink sleeve, for conductor diameters 12.7 - 38.1 mm, labeled according to customer requirements¹⁾ 1 marker per strip, 60 mm long	WMS 38,1 (60X60)R CUS	0800744	1



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FOR YOUConductor cross sections
from 0.8 to 38 mm, yellow

Technical data

Polyolefine
-55 ... 135
DIN EN 61010-1 (VDE 0411-1)
Halogen-free
3:1

Ordering data

Type	Order No.	Pcs. / Pkt.
WMS 2,4 (15X4)R YE CUS	0800770	1
WMS 2,4 (30X4)R YE CUS	0800765	1
WMS 2,4 (60X4)R YE CUS	0800755	1
WMS 3,2 (15X5)R YE CUS	0800771	1
WMS 3,2 (30X5)R YE CUS	0800766	1
WMS 3,2 (60X5)R YE CUS	0800756	1
WMS 4,8 (15X9)R YE CUS	0800772	1
WMS 4,8 (30X9)R YE CUS	0800767	1
WMS 4,8 (60X9)R YE CUS	0800757	1
WMS 6,4 (30X10)R YE CUS	0800768	1
WMS 6,4 (60X10)R YE CUS	0800758	1
WMS 9,5 (30X16)R YE CUS	0800769	1
WMS 9,5 (60X16)R YE CUS	0800759	1
WMS 12,7 (60X20)R YE CUS	0800760	1
WMS 19,1 (60X30)R YE CUS	0800761	1
WMS 25,4 (60X40)R YE CUS	0800762	1
WMS 38,1 (60X60)R YE CUS	0800764	1

Marking and labeling - MARKING system

Conductor and cable marking

Continuous shrink sleeve



- The shrink sleeves are automatically perforated or cut to the length required in the printing process
- They are available in the form of continuous on-roll goods and can be printed on both sides using the THERMOMARK W2 printer
- Individual markers can be cut to any length up to 1 m
The following standards are satisfied:
 - UL 224 (125°C, 600 V, VW-1)
 - CSA.C22.2 No. 198.1 (125°C, 600 V, VW-1)
 - MIL-STD-202G, SAE AMS-DTL-23053, SAE AS-81531

Notes:

The special THEMOMARK-RIBBON ... WMSU is required for marking WMS ... shrink sleeves, see Printers, page 38.

How to use the external media hubs:

THERMOMARK ROLL:

Use the external THERMOMARK ROLL-ERH media hub for R rolls and the external THERMOMARK-ERH 500 for large rolls, see Printers, page 38.

THERMOMARK ROLL X1 and THERMOMARK W2:

R rolls can be inserted directly in the device, use the THERMOMARK-ERH 500 for large rolls, see Printers, page 43.

Can be printed with:



Thermal transfer for rolls



Shrinkable marker, white



Technical data

General data

Can be printed with:

Material	
Temperature range	[°C]
Wipe resistance	-55 ... 135
Components	DIN EN 61010-1 (VDE 0411-1)

THERMOMARK W1 • THERMOMARK W2 • THERMOMARK

ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THER-

MOMARK X1.2

Polyolefine

-55 ... 135

DIN EN 61010-1 (VDE 0411-1)

Halogen-free

3:1

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Shrink sleeve 1 roll = 30 m, conductor diameter: 0.8 - 2.4 mm	WMS 2,4 (EX4)R	0800289	1
1 roll = 30 m, conductor diameter: 1.0 - 3.2 mm	WMS 3,2 (EX5)R	0800290	1
1 roll = 30 m, conductor diameter: 1.6 - 4.8 mm	WMS 4,8 (EX9)R	0800291	1
1 roll = 25 m, conductor diameter: 2.1 - 6.4 mm	WMS 6,4 (EX10)R	0800292	1
1 roll = 20 m, conductor diameter: 3.2 - 9.5 mm	WMS 9,5 (EX16)R	0800293	1
1 roll = 20 m, conductor diameter: 4.2 - 12.7 mm	WMS 12,7 (EX20)R	0800294	1
1 roll = 20 m, conductor diameter: 6.4 - 19.1 mm	WMS 19,1 (EX30)R	0800295	1
1 roll = 15 m, conductor diameter: 8.5 - 25.4 mm	WMS 25,4 (EX40)R	0800296	1
1 roll = 15 m, conductor diameter: 12.7 - 38.1 mm	WMS 38,1 (EX60)R	0800298	1
1 roll = 15 m, conductor diameter: 16.9 - 50.8 mm	WMS 50,8 (EX80)R	0800299	1
Shrink sleeve, large roll 1 roll = 120 m, conductor diameter: 0.8 - 2.4 mm	WMS 2,4 (EX4)RL	0800319	1
1 roll = 120 m, conductor diameter: 1.0 - 3.2 mm	WMS 3,2 (EX5)RL	0800320	1
1 roll = 120 m, conductor diameter: 1.6 - 4.8 mm	WMS 4,8 (EX9)RL	0800321	1
1 roll = 100 m, conductor diameter: 2.1 - 6.4 mm	WMS 6,4 (EX10)RL	0800322	1
1 roll = 80 m, conductor diameter: 3.2 - 9.5 mm	WMS 9,5 (EX16)RL	0800324	1
1 roll = 80 m, conductor diameter: 4.2 - 12.7 mm	WMS 12,7 (EX20)RL	0800325	1
1 roll = 80 m, conductor diameter: 6.4 - 19.1 mm	WMS 19,1 (EX30)RL	0800326	1
1 roll = 60 m, conductor diameter: 8.5 - 25.4 mm	WMS 25,4 (EX40)RL	0800327	1





Shrinkable marker, yellow



Shrinkable marker, black

Technical data			Technical data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
THERMOMARK W1 • THERMOMARK W2 • THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 Polyolefine -55 ... 135 DIN EN 61010-1 (VDE 0411-1) Halogen-free 3:1			THERMOMARK W1 • THERMOMARK W2 • THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 Polyolefine -55 ... 135 DIN EN 61010-1 (VDE 0411-1) Halogen-free 3:1		
Ordering data			Ordering data		
WMS 2,4 (EX4)R YE	0800300	1	WMS 2,4 (EX4)R BK	0800415	1
WMS 3,2 (EX5)R YE	0800301	1	WMS 3,2 (EX5)R BK	0800416	1
WMS 4,8 (EX9)R YE	0800302	1	WMS 4,8 (EX9)R BK	0800418	1
WMS 6,4 (EX10)R YE	0800303	1	WMS 6,4 (EX10)R BK	0800419	1
WMS 9,5 (EX16)R YE	0800304	1	WMS 9,5 (EX16)R BK	0800421	1
WMS 12,7 (EX20)R YE	0800305	1	WMS 12,7 (EX20)R BK	0800422	1
WMS 19,1 (EX30)R YE	0800306	1	WMS 19,1 (EX30)R BK	0800423	1
WMS 25,4 (EX40)R YE	0800308	1	WMS 25,4 (EX40)R BK	0800424	1
WMS 38,1 (EX60)R YE	0800309	1	WMS 38,1 (EX60)R BK	0800425	1
WMS 50,8 (EX80)R YE	0800311	1	WMS 50,8 (EX80)R BK	0800426	1
WMS 2,4 (EX4)RL YE	0800328	1	WMS 2,4 (EX4)RL BK	0800427	1
WMS 3,2 (EX5)RL YE	0800329	1	WMS 3,2 (EX5)RL BK	0800428	1
WMS 4,8 (EX9)RL YE	0800330	1	WMS 4,8 (EX9)RL BK	0800429	1
WMS 6,4 (EX10)RL YE	0800331	1	WMS 6,4 (EX10)RL BK	0800430	1
WMS 9,5 (EX16)RL YE	0800332	1	WMS 9,5 (EX16)RL BK	0800431	1
WMS 12,7 (EX20)RL YE	0800333	1	WMS 12,7 (EX20)RL BK	0800432	1
WMS 19,1 (EX30)RL YE	0800334	1	WMS 19,1 (EX30)RL BK	0800434	1
WMS 25,4 (EX40)RL YE	0800335	1	WMS 25,4 (EX40)RL BK	0800435	1

Marking and labeling - MARKING system

Conductor and cable marking

Continuous shrink sleeves, labeled according to customer requirements



All WMS ... continuous shrink sleeves can also be supplied labeled according to customer requirements.

The following standards are satisfied:

- UL 224 (125°C, 600 V, VW-1)
- CSA.C22.2 No. 198.1 (125°C, 600 V, VW-1)
- MIL-STD-202G, SAE AMS-DTL-23053, SAE AS-81531
- Figure below shows:
 - SD-WMTB (70x10) label holder in combination with WMS 6,4 (Ex10)R CUS shrink sleeve for marking cables and conductors; see page 221

Notes:

¹⁾ For ordering example, see page 359.

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Shrinkable marker, white

Technical data

General data

Material	[°C]	Polyolefine
Temperature range		-55 ... 135
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)
Components		Halogen-free

Shrink rate

3:1

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Shrink sleeve, labeled according to customer requirements¹⁾			
1 roll = 30 m, conductor diameter: 0.8 - 2.4 mm	WMS 2,4 (EX4)R CUS	0800701	1
1 roll = 30 m, conductor diameter: 1.0 - 3.2 mm	WMS 3,2 (EX5)R CUS	0800702	1
1 roll = 30 m, conductor diameter: 1.6 - 4.8 mm	WMS 4,8 (EX9)R CUS	0800703	1
1 roll = 25 m, conductor diameter: 2.1 - 6.4 mm	WMS 6,4 (EX10)R CUS	0800704	1
1 roll = 20 m, conductor diameter: 3.2 - 9.5 mm	WMS 9,5 (EX16)R CUS	0800706	1
1 roll = 20 m, conductor diameter: 4.2 - 12.7 mm	WMS 12,7 (EX20)R CUS	0800707	1
1 roll = 20 m, conductor diameter: 6.4 - 19.1 mm	WMS 19,1 (EX30)R CUS	0800708	1
1 roll = 15 m, conductor diameter: 8.5 - 25.4 mm	WMS 25,4 (EX40)R CUS	0800709	1
1 roll = 15 m, conductor diameter: 12.7 - 38.1 mm	WMS 38,1 (EX60)R CUS	0800710	1
1 roll = 15 m, conductor diameter: 16.9 - 50.8 mm	WMS 50,8 (EX80)R CUS	0800711	1



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Shrinkable marker, yellow

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FOR YOU

Shrinkable marker, black

Technical data			Technical data		
Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
WMS 2,4 (EX4)R YE CUS	0800713	1	WMS 2,4 (EX4)R BK CUS	0800725	1
WMS 3,2 (EX5)R YE CUS	0800714	1	WMS 3,2 (EX5)R BK CUS	0800726	1
WMS 4,8 (EX9)R YE CUS	0800715	1	WMS 4,8 (EX9)R BK CUS	0800727	1
WMS 6,4 (EX10)R YE CUS	0800716	1	WMS 6,4 (EX10)R BK CUS	0800728	1
WMS 9,5 (EX16)R YE CUS	0800717	1	WMS 9,5 (EX16)R BK CUS	0800729	1
WMS 12,7 (EX20)R YE CUS	0800719	1	WMS 12,7 (EX20)R BK CUS	0800730	1
WMS 19,1 (EX30)R YE CUS	0800720	1	WMS 19,1 (EX30)R BK CUS	0800731	1
WMS 25,4 (EX40)R YE CUS	0800722	1	WMS 25,4 (EX40)R BK CUS	0800732	1
WMS 38,1 (EX60)R YE CUS	0800723	1	WMS 38,1 (EX60)R BK CUS	0800733	1
WMS 50,8 (EX80)R YE CUS	0800724	1	WMS 50,8 (EX80)R BK CUS	0800735	1

Marking and labeling - MARKING system

Conductor and cable marking

Insertable conductor marking for marking collars



- EMT ... insert labels for labeling various marking collars
- Can be printed onto with THERMOMARK... for material off the roll
- Thanks to their special contour, EMT ... insert labels remain securely inside the collar once inserted
- The PABL ... sheets are available to allow labeling with a laser printer

Notes:

PATG/PATO ... system, see page 224.

KMK ..., see page 216.

LM ..., see page 217.

1) For ordering example, see page 359.

Can be printed with:



Thermal transfer for rolls



For PATG ... and PATO ... marker carriers

Technical data

General data

Can be printed with:

Material	
Temperature range	[°C]
Wipe resistance	
Components	

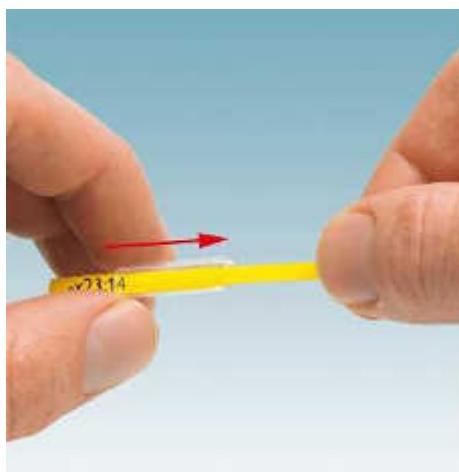
THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Insert strips, Lettering field size: 10 x 4 mm, 7500 labels p. roll	white	EMT (10X4)R	0816235	1
Lettering field size: 15 x 4 mm, 7500 labels p. roll	white	EMT (15X4)R	0817329	1
	red	EMT (15X4)R RD	0816249	1
	yellow	EMT (15X4)R YE	0817358	1
	blue	EMT (15X4)R BU	0817332	1
Lettering field size: 23 x 4 mm, 5000 labels p. roll	white	EMT (23X4)R	0817361	1
	yellow	EMT (23X4)R YE	0817374	1
Lettering field size: 24 x 4 mm, 5000 labels p. roll	white	EMT (24X4)R	0816265	1
Lettering field size: 25 x 6 mm, 5000 labels p. roll	white	EMT (25X6)R	0817264	1
Lettering field size: 29 x 8 mm, 5400 labels p. roll	white	EMT (29X8)R	0817277	1
Lettering field size: 40 x 17 mm, 2300 labels p. roll	white	EMT (29X8)R YE	0817280	1
	yellow	EMT (40X17)R	0817293	1
Lettering field size: 60 x 15 mm, 2500 labels p. roll	white	EMT (60X15)R	0801846	10
Insert strips, for PATG/PATO, perforated, DIN A4 sheet, lettering field size: 15 x 4 mm, 1 sheet = 360 labels	white	PABL 15X4	0808260	10
Insert strips, labeled acc. to customer specifications¹⁾				
Lettering field size: 10 x 4 mm, 6 labels p. strip	white	EMT (10X4)R CUS	0824374	1
Lettering field size: 15 x 4 mm, 6 labels p. strip	white	EMT (15X4)R CUS	0824375	1
	red	EMT (15X4)R RD CUS	0824377	1
	yellow	EMT (15X4)R YE CUS	0824378	1
	blue	EMT (15X4)R BU CUS	0824376	1
Lettering field size: 23 x 4 mm, 4 labels p. strip	white	EMT (23X4)R CUS	0824379	1
	yellow	EMT (23X4)R YE CUS	0824380	1
Lettering field size: 24 x 4 mm, 4 labels p. strip	white	EMT (24X4)R CUS	0824381	1
Lettering field size: 25 x 6 mm, 4 labels p. strip	white	EMT (25X6)R CUS	0824382	1
Lettering field size: 29 x 8 mm, 3 labels p. strip	white	EMT (29X8)R CUS	0824383	1
Lettering field size: 40 x 17 mm, 3 labels p. strip	white	EMT (29X8)R YE CUS	0824384	1
	yellow	EMT (40X17)R CUS	0824385	1
Lettering field size: 60 x 15 mm, 1 label p. strip	white	EMT (60X15)R CUS	0801998	1
Insert strips, for PATG/PATO, perforated, labeled acc. to customer specifications¹⁾	white	PABL 15X4 CUS	0824449	1



Insertable conductor marking with threading and insertion aid for marking collars



- The WMTW... insert labels are used to label marking collars from the PATG/PATO ... system; see page 224.
- Easy assembly thanks to a threading and insertion aid, which can be easily separated by means of a perforation after inserting the marker
- Thanks to their special shape, the WMTW ... insert labels remain securely inside the marking collar
- Can be printed onto with THERMOMARK... for material off the roll
- Labeling service: Phoenix Contact can custom-label all conductor markers in accordance with your requirements

Notes:

¹⁾ For ordering example, see page 359.

Can be printed with:



Thermal transfer for rolls



For PATG ... and PATO... marker carriers

Technical data

General data

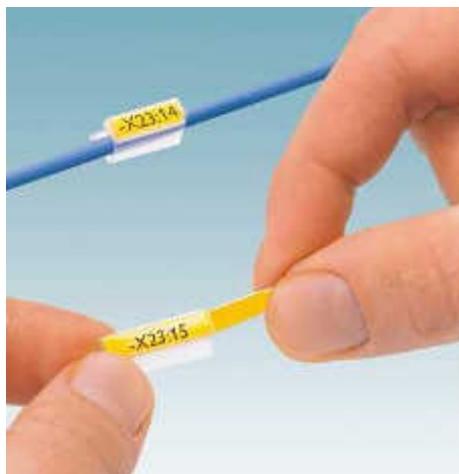
Can be printed with:

Material	
Temperature range	[°C]
Wipe resistance	-40 ... 90
Components	DIN EN 61010-1 (VDE 0411-1) Halogen-free

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMO-MARK S1.1 • THERMOMARK X1.1 • THERMOMARK X1.2
Polyolefine
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Halogen-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Insertable conductor marking Lettering field size: 10 x 4 mm, 3000 labels per roll	white	WMTW (10X4)R	0831000	1
Lettering field size: 10 x 4 mm, 3000 labels per roll	yellow	WMTW (10X4)R YE	0831001	1
Lettering field size: 15 x 4 mm, 3000 labels per roll	white	WMTW (15X4)R	0831002	1
Lettering field size: 15 x 4 mm, 3000 labels per roll	yellow	WMTW (15X4)R YE	0831003	1
Lettering field size: 23 x 4 mm, 3000 labels per roll	white	WMTW (23X4)R	0831004	1
Lettering field size: 23 x 4 mm, 3000 labels per roll	yellow	WMTW (23X4)R YE	0831005	1
Insertable conductor marking, labeled according to customer specifications¹⁾				
Lettering field size: 10 x 4 mm, 1 label per strip	white	WMTW (10X4)R CUS	0831008	1
Lettering field size: 10 x 4 mm, 1 label per strip	yellow	WMTW (10X4)R YE CUS	0831009	1
Lettering field size: 15 x 4 mm, 1 label per strip	white	WMTW (15X4)R CUS	0831010	1
Lettering field size: 15 x 4 mm, 1 label per strip	yellow	WMTW (15X4)R YE CUS	0831011	1
Lettering field size: 23 x 4 mm, 1 label per strip	white	WMTW (23X4)R CUS	0831007	1
Lettering field size: 23 x 4 mm, 1 label per strip	yellow	WMTW (23X4)R YE CUS	0831006	1



Marking and labeling - MARKING system

Conductor and cable marking

Slide-on conductor marking



- The conductor to be marked is pushed through two punched holes in the marker and positioned
- The special hole geometry ensures a strong axial hold
- Made from high-quality polyester foil
- Available for different conductor diameters
- Custom labeling and easy handling
- High-quality labeling image created by thermal transfer printing
- Special packaging protects the conductor markers against external influences, dust, and dirt
- Labeling service: Phoenix Contact can custom-label all conductor markers in accordance with your requirements

Notes:

¹⁾ For ordering example, see page 359.

Can be printed with:



Thermal transfer for rolls



Marker for conductor diameters
from 1.0 to 8.4 mm

Technical data

General data

Can be printed with:

Number of individual labels

Material

Temperature range

[°C]

Wipe resistance

Components

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMO-

MARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1

4000

Polyester

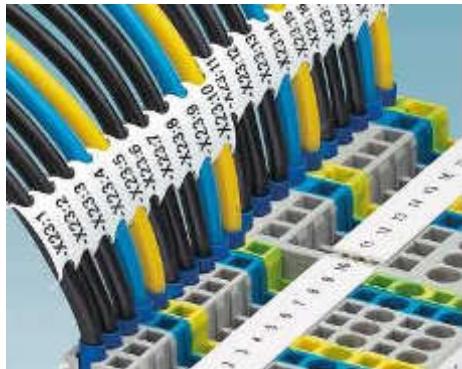
-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Slide-on conductor markers, 1 roll = 4000 conductor markers				
Lettering field size: 15 x 4 mm, conductor diameter: 1.0 - 2.4 mm	white	WMT 2,4 (15X4)R	0816281	1
Lettering field size: 15 x 5 mm, conductor diameter: 2.0 - 3.5 mm	white	WMT 3,5 (15X5)R	0817222	1
Lettering field size: 15 x 6 mm, conductor diameter: 3.0 - 4.2 mm	white	WMT 4,2 (15X6)R	0817235	1
Lettering field size: 15 x 8 mm, conductor diameter: 4.0 - 5.5 mm	white	WMT 5,5 (15X8)R	0817248	1
Lettering field size: 17 x 10 mm, conductor diameter: 5.0 - 8.4 mm	white	WMT 8,4 (17X10)R	0817251	1
Conductor marker for threading, labeled as per customer specifications¹⁾				
Lettering field size: 15 x 4 mm, conductor diameter: 1.0 - 2.4 mm, 3 labels p. strip	white	WMT 2,4 (15X4)R CUS	0824927	1
Lettering field size: 15 x 5 mm, conductor diameter: 2.0 - 3.5 mm, 3 labels p. strip	white	WMT 3,5 (15X5)R CUS	0824928	1
Lettering field size: 15 x 6 mm, conductor diameter: 3.0 - 4.2 mm, 2 labels p. strip	white	WMT 4,2 (15X6)R CUS	0824929	1
Lettering field size: 15 x 8 mm, conductor diameter: 4.0 - 5.5 mm, 2 labels p. strip	white	WMT 5,5 (15X8)R CUS	0824930	1
Lettering field size: 17 x 10 mm, conductor diameter: 5.0 - 8.4 mm, 2 labels p. strip	white	WMT 8,4 (17X10)R CUS	0824931	1



Conductor marking for assembly with cable binders



Can be printed with:



Thermal transfer for rolls



Marker for conductor diameters of 6 mm and above

- Conductor marking for identifying and bundling conductors in indoor areas
- Made from high-quality polyester foil
- The marker has two fastening eyes so that it can be attached to the conductor by means of PKB ... cable binders
- Labeling service: Phoenix Contact can custom-label all conductor markers in accordance with your requirements

Notes:

For corresponding cable binders, see page 574 onwards.

¹⁾ For ordering example, see page 359.

General data

Can be printed with:

Material
Temperature range
Wipe resistance
Components

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMO-MARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Technical data

Description

Color

Type

Order No.

Pcs. / Pkt.

Cable markers for assembly with cable binders

Lettering field size: 24 x 8 mm (max. cable binder width: 5 mm), 4000 cable markers p. roll

white

WMTB (24X8)R

0816278

1

Lettering field size: 35 x 15 mm (max. cable binder width: 5 mm), 1700 cable markers p. roll

white

WMTB (35X15)R

0817316

1

Cable marker for assembly with cable binders, labeled according to customer specifications¹⁾

Lettering field size: 24 x 8 mm (max. cable binder width: 5 mm), 4 labels p. strip

white

WMTB (24X8)R CUS

0824932

1

Lettering field size: 35 x 15 mm (max. cable binder width: 5 mm), 2 labels p. strip

white

WMTB (35X15)R CUS

0824933

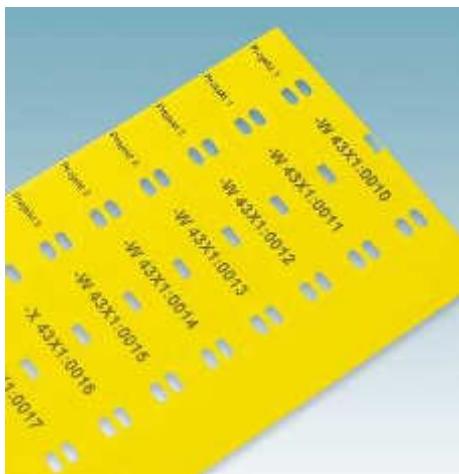
1



Marking and labeling - MARKING system

Conductor and cable marking

Conductor marking for assembly with cable binders



Halogen-free conductor and cable marking for marking and bundling conductors and cables indoors and outdoors.

- Made from high-quality thermoplastic polyether urethane
- Highly flexible material, adapts to the bending of the conductors or cables
- Additional labeling, such as project information, can be printed on the carrier material. This makes it easier to assign the markers during mounting.
- Very high tensile strength
- Flame-retardant material
- The marker has two fastening lugs so that it can be attached to the conductor by means of cable binders
- Labeling service: Phoenix Contact can custom-label all conductor markers in accordance with your requirements

Notes:

For corresponding cable binders, see page 574 onwards.

1) For ordering example, see page 359.

Can be printed with:



Thermal transfer for rolls



Marker for conductor diameters of 6 mm and above

Technical data

General data

Can be printed with:

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

-25 ... 80

Components

DIN EN 61010-1 (VDE 0411-1)

Halogen-free

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Cable markers for assembly with cable binders , maximum cable binder width: 5 mm				
1000 markers per roll, lettering field size: 40 x 12 mm	white	WMTB HF (40X12)R	0830407	1
	yellow	WMTB HF (40X12)R YE	0830408	1
1000 markers per roll, lettering field size: 55 x 15 mm	white	WMTB HF (55X15)R	0830409	1
500 markers per roll, lettering field size: 55 x 25 mm	yellow	WMTB HF (55X15)R YE	0830410	1
	white	WMTB HF (55X25)R	0830411	1
	yellow	WMTB HF (55X25)R YE	0830412	1
Cable markers for assembly with cable binders , labeled according to customer specifications, 1 marker per strip, lettering field size: 40 x 12 mm ¹⁾				
1 marker per strip, lettering field size: 55 x 15 mm	yellow	WMTB HF (40X12)R YE CUS	0830414	1
	white	WMTB HF (55X15)R CUS	0830415	1
1 marker per strip, lettering field size: 55 x 25 mm	yellow	WMTB HF (55X15)R YE CUS	0830416	1
	white	WMTB HF (55X25)R CUS	0830417	1
	yellow	WMTB HF (55X25)R YE CUS	0830418	1

Accessories

Ink ribbon, specifically for cable markers for assembly with cable binders, WMTB HF..., length: 300 m, width: 110 mm

black

THERMOMARK-RIBBON 110-WMTB HF

5148007

1



Conductor marker carriers for assembly with cable binders, for labels with laminated protective foil



- The WM-CARRIER /B... conductor marker carriers consist of a labeling field for labels and a transparent, self-adhesive laminated protective foil
- The protective foil provides permanent protection against contamination and abrasion
- High-quality labeling image created by thermal transfer printing
- Quick and easy handling
- The marker has two fastening lugs so that it can be attached to the conductor by means of cable binders
- Resistant to solvents
- Labeling service: Phoenix Contact can custom-label all cable marker labels in accordance with your requirements

Notes:

For corresponding cable binders, see page 574 onwards.

¹⁾ For ordering example, see page 359.



For conductor diameters from 6 mm

Technical data			
General data			
Material	PVC/polyester		
Temperature range	-10 ... 60 [°C]		
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)		
Components	Halogen-free		
Ordering data			
Description	Color	Type	Order No. Pcs. / Pkt.
Conductor marker carriers , maximum cable binder width: 5 mm			
Lettering field size: 48 x 10 mm	transparent	WM-CARRIER/B (48X10)LPR	0830423 100
Lettering field size: 55 x 15 mm	transparent	WM-CARRIER/B (55X15)LPR	0830424 100
Lettering field size: 85 x 15 mm	transparent	WM-CARRIER/B (85X15)LPR	0830425 100
Labels		Accessories	
2500 labels per roll	white yellow	EML (40X6)R EML (40X6)R YE	0830481 1 0830482 1
2500 labels per roll	white yellow	EML (50X10)R EML (50X10)R YE	0830483 1 0830484 1
2500 labels per roll	white yellow	EML (75X10)R EML (75X10)R YE	0830485 1 0830486 1
Labels, labeled according to customer requirements¹⁾			
2 labels per strip	white yellow	EML (40X6)R CUS EML (40X6)R YE CUS	0830487 1 0830488 1
1 label per strip	white yellow	EML (50X10)R CUS EML (50X10)R YE CUS	0830489 1 0830490 1
1 label per strip	white yellow	EML (75X10)R CUS EML (75X10)R YE CUS	0830491 1 0830492 1



Marking and labeling - MARKING system

Conductor and cable marking

Plastic cable marker for insert labels, for assembly with cable binders

N

Notes:

For corresponding cable binders, see page 574 onwards.



25 x 6 mm marker

- The KMK... versions have eyelets and are attached with cable binders
- Plastic cable markers for marking and bundling multiple conductors and cables indoors
- The printed insert label is protected from dirt by the sealing cap
- Labeling service: Phoenix Contact can custom-label all insert labels for plastic cable markers in accordance with your requirements

General data

Material	Polyethylene -40 ... 80 free from silicone and halogen
Temperature range	
Components	[°C]

Technical data

Description	Color	Type	Order No.	Pcs. / Pkt.
Plastic cable markers for insert labels, with eyelets for fastening with cable binders Lettering field size: 25 x 6 mm	transparent	KMK 1	0830745	100
Plastic cable markers for insert labels, with eyelets for fastening with cable binders Lettering field size: 29 x 8 mm	transparent			
Plastic cable markers for insert labels, with eyelets for fastening with cable binders Lettering field size: 40 x 17 mm	transparent			
Plastic cable markers for insert labels, with eyelets for fastening with cable binders Lettering field size: 60 x 15 mm	transparent			

Accessories

Insert strips for laser printers, DIN A4, perforated Lettering field size: 25 x 6 mm, 1 sheet = 252 labels Lettering field size: 29 x 8 mm, 1 sheet = 174 labels Lettering field size: 40 x 17 mm, 1 sheet = 56 labels Lettering field size: 60 x 15 mm, 1 sheet = 51 labels	ESL (25X6)	0801849	10
Insert labels for thermal transfer printers Lettering field size: 25 x 6 mm, 5000 labels per roll Lettering field size: 29 x 8 mm, 5400 labels p. roll Lettering field size: 40 x 17 mm, 2300 labels p. roll Lettering field size: 60 x 15 mm, 2500 labels per roll	EMT (25X6)R	0817264	1
UniSheet, 0.5 mm thick 84-section, lettering field size: 25 x 6 mm 48-section, lettering field size: 29 x 8 mm 16-section, lettering field size: 40 x 17 mm 9-section, lettering field size: 60 x 15 mm	US-EMP (25X6)-1	0802754	10





29 x 8 mm markers



40 x 17 mm markers



60 x 15 mm markers

Technical data			Technical data			Technical data		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
KMK 2	1005266	100	KMK 4	1005305	50	KMK 5	0830746	50
Accessories			Accessories			Accessories		
ESL 29X8	0808257	10	ESL 40X17	0808095	10	ESL (60X15)	0801851	10
EMT (29X8)R	0817277	1	EMT (40X17)R	0817293	1	EMT (60X15)R	0801846	10
US-EMP (29X8)	0829436	10	US-EMP (40X17)	0829437	10	US-EMP (60X15)	0828781	10

Marking and labeling - MARKING system

Conductor and cable marking

Plastic cable marker for insert labels, for assembly with cable binders

Notes:

For corresponding cable binders, see page 574 onwards.



- Plastic cable markers for marking and bundling multiple conductors and cables indoors
- The printed insert label is protected from dirt by the sealing cap
- Labeling service: Phoenix Contact can custom-label all insert labels for plastic cable markers in accordance with your requirements



For insert labels measuring 29 x 8 mm

Technical data				
General data				
Material		Polyethylene		
Temperature range	[°C]	-40 ... 80		
Components		free from silicone and halogen		
Ordering data				
Description	Color	Type	Order No.	Pcs. / Pkt.
Plastic cable markers for insert labels, with cable binders with a pointed end, can be labeled with ESL..., EMT... or US-EMP... insert labels, diameter: 10 ... 25 mm, lettering field size: 29 x 8 mm	transparent	KMK	1005208	100
Plastic cable markers for insert labels, with cable binders with a pointed end, can be labeled with ESL..., EMT... or US-EMP... insert labels, diameter: 16 ... 35 mm, lettering field size: 40 x 17 mm	transparent			
Cable and conductor markers for insert labels, can be labeled with EST or ESL, diameter of 1 - 12 mm, lettering field size: 24 x 4 mm	white			
Cable and conductor markers for labels, lettering field size: 20 x 8 mm	white			
Accessories				
Insert strips for laser printers, DIN A4, perforated		ESL 29X 8	0808257	10
Lettering field size: 29 x 8 mm, 1 sheet = 174 labels				
Lettering field size: 40 x 17 mm, 1 sheet = 56 labels				
Lettering field size: 24 x 4 mm, 1 sheet = 488 labels				
Insert labels for thermal transfer printers		EMT (29X8)R	0817277	1
Lettering field size: 29 x 8 mm, 5400 labels p. roll				
Lettering field size: 40 x 17 mm, 2300 labels p. roll				
Lettering field size: 24 x 4 mm, 5000 labels p. roll				
UniSheet, 0.5 mm thick 48-section, lettering field size: 29 x 8 mm 16-section, lettering field size: 40 x 17 mm Textile label, lettering field size: 20 x 8 mm 2500 labels p. roll 2500 labels p. roll		US-EMP (29X8)	0829436	10





For insert labels measuring 40 x 17 mm

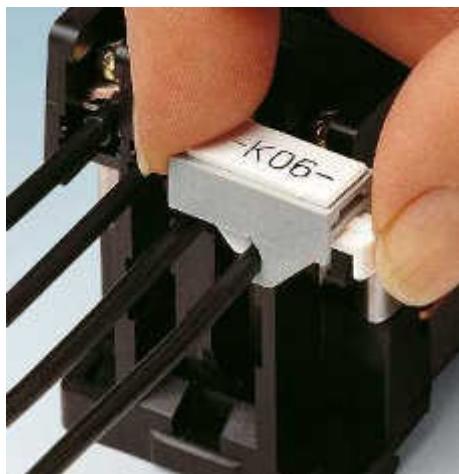
For insert labels,
12 mm conductor diameterFor adhesive labels,
conductor diameter of up to 20 mm

Technical data			Technical data			Technical data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
KMK 3	1005211	50	LM	1004377	100	KME	0807083	50
ESL 40X17	0808095	10	ESL 24X 4	0808231	10			
EMT (40X17)R	0817293	1	EMT (24X4)R	0816265	1			
US-EMP (40X17)	0829437	10				EMLC (20X8)R	0815680	1
						EML (20X8)R	0816786	1

Marking and labeling - MARKING system

Conductor and cable marking

GKM ... conductor markers



- The GKM ... conductor markers support large-surface conductor labeling
- Flexible application, thanks to spring-loaded conductor attachment
- Particularly suitable for temporary labeling
- Quick and easy to use



Conductor diameter from 0 to 5.2 mm

Technical data			
General data	Material	PA/ABS	
	Temperature range	-40 ... 80 °C	
	Components	free from silicone and halogen	
Ordering data			
Description	Color	Type	Order No.
Conductor markers, lettering field size: 20 x 8 mm for conductor diameters of 0 - 2.5 mm	gray	GKM 1 GY	1750498
For conductor diameters of 4.8 - 11 mm	gray		100
Accessories			
Marker tags, 5-section, unprinted, labeling with X-PEN, M-PEN, plotter or BKMT 20 x 8 label	white yellow	SS-ZB WH SS-ZB YE	5031171 5031650
Lettering field size: 20 x 8 mm	white	UC-EM (20X9)	0825503
Lettering field size: 20 x 8 mm	yellow	UC-EM (20X9) YE	0827637
Lettering field size: 20 x 9 mm	white	UCT-EM (20X9)	0801471
Lettering field size: 20 x 9 mm	yellow	UCT-EM (20X9) YE	0801472



Conductor diameter from 4.8 to 11 mm

Technical data

PA/ABS
-40 ... 80
free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
GKM 2 GY	1750485	100

Accessories

SS-ZB WH	5031171	50
SS-ZB YE	5031650	50
UC-EM (20X9)	0825503	10
UC-EM (20X9) YE	0827637	10
UCT-EM (20X9)	0801471	10
UCT-EM (20X9) YE	0801472	10

Marking and labeling - MARKING system

Conductor and cable marking

Type keys for SD-WMTBS ...



Example

0826514 SD-WMTBS (S) YE

Order No.	Product type	Printing	Color
0826637 0826514 0826611: letter 0826624: symbol 0826527	SD-WMTBS (NEUTRAL) CC SD-WMTBS (S) YE SD-WMTBS (CH) YE SD-WMTBS (SY) YE SD-WMTBS (NU) CC	(NEUTRAL) = unprinted (S) = printed with numbers 0 - 9 (CH) = letters A - Z (SY) = symbols + - / . GND (NU) = printed with numbers 0 - 9	CC = international color code YE = yellow YE = yellow YE = yellow CC = international color code

International color code



Print	Marker color	Font color
0	Black	White
1	Brown	White
2	Red	White
3	Orange	Black
4	Yellow	Black
5	Green	White
6	Blue	White
7	Violet	White
8	Gray	Black
9	White	Black

Cable marking for carrier assembly**Notes:**

The label holder is attached using cable binders; for corresponding cable binders up to 4.8 mm wide, see page 574 onwards.

¹⁾ For an ordering example, see page 220.



Conductor diameter > 16 mm

- Cable markers for marking cables and conductors with larger cross sections
- The printed individual markers are pushed onto the corresponding holders
- Figure below shows: SD-WMTB (70x10) label holder in combination with WMS 6,4 (Ex10)R CUS shrink sleeve for marking cables and conductors

General data

Material	PVC
Inflammability class according to UL 94	V2
Temperature range	[°C]
Wipe resistance	-30 ... 60

Components

Technical data

PVC
V2
-30 ... 60
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and cadmium

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Cable marker¹⁾				
International color code, unprinted	International color code	SD-WMTBS (NEUTRAL) CC	0826637	100
printed: with numbers 0-9	yellow	SD-WMTBS (S) YE	0826514	100
printed: with upper case letters A-Z	yellow	SD-WMTBS (CH) YE	0826611	100
printed: with symbols + - . GND	yellow	SD-WMTBS (SY) YE	0826624	100
International color code, printed: With numbers between 0-9	International color code	SD-WMTBS (NU) CC	0826527	100
Label holder , for cable binders up to 4.8 mm wide				
For max. 7 characters	black	SD-WMTB (70X10)	0826530	100
For max. 13 characters	black	SD-WMTB (100X10)	0826543	100



Marking and labeling - MARKING system

Conductor and cable marking

Stainless steel cable marking for carrier assembly



Notes:

For further stainless steel cable binders, see page 580.

¹⁾ For ordering example, see page 220.



Stainless steel marker with carrier

- Cable markers for marking cables and conductors with larger cross sections
- The individual stainless steel markers are pushed onto the corresponding holders
- They are secured using stainless steel cable binders
- Easy assembly with UNIFOX-CT M7,9

General data		Technical data		
Material		Stainless steel		
		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
Cable marker¹⁾				
unprinted	silver	SD-WMTBS (NEUTRAL) VA	0826666	50
printed: with numbers 0-9	silver	SD-WMTBS (NU) VA	0826556	50
printed: with upper case letters A-Z	silver	SD-WMTBS (CH) VA	0826640	50
printed: with symbols + - / . GND	silver	SD-WMTBS (SY) VA	0826653	50
Label holder				
For max. 6 characters	silver	SD-WMTB (30X10) VA	0826569	50
For max. 9 characters	silver	SD-WMTB (47X10) VA	0826572	50
For max. 13 characters	silver	SD-WMTB (70X10) VA	0826585	50
For max. 17 characters	silver	SD-WMTB (92X10) VA	0826598	50
For max. 20 characters	silver	SD-WMTB (111X10) VA	0826608	50
Accessories				
Cable binder , made of stainless steel (AISI 304), width 4.6 mm, maximum bundle Ø [mm]/minimum tensile strength [N]				
30 / 890	silver	WT-STEEL S 4,6X150	3240807	100
50 / 890	silver	WT-STEEL S 4,6X201	3240808	100



Stainless steel cable marking for embossing or laser engraving



- Cable markers for marking cables and conductors with larger cross sections
- The individual stainless steel markers are pushed onto the corresponding holders
- They are secured using stainless steel cable binders
- Easy assembly with UNIFOX-CT M7,9

Notes:

For further stainless steel cable binders, see page 580.

**PRINTED
FOR YOU**



Stainless steel plate

Technical data				
Ordering data				
General data				
Material				Stainless steel
Description	Color	Type	Order No.	Pcs. / Pkt.
Steel cable markers, rustproof, non-magnetic, label size: 89 x 19 mm, lettering field size: 65 x 19 mm	silver	KMV KMV CUS	0806644 0828493	100 1
Lased acc. to customer specifications	silver	KMV 44X9,6 KMV 44X9,6 CUS	0812007 0828494	100 1
Steel cable markers, rustproof, non-magnetic, label size: 44 x 9.6 mm, lettering field size: 23 x 9 mm	silver			
Lased acc. to customer specifications	silver			
Accessories				
Cable binder , made of stainless steel (AISI 304), width 4.6 mm, maximum bundle Ø [mm]/minimum tensile strength [N]		WT-STEEL S 4,6X150	3240807	100
30 / 890	silver			



Marking and labeling - MARKING system

Conductor and cable marking

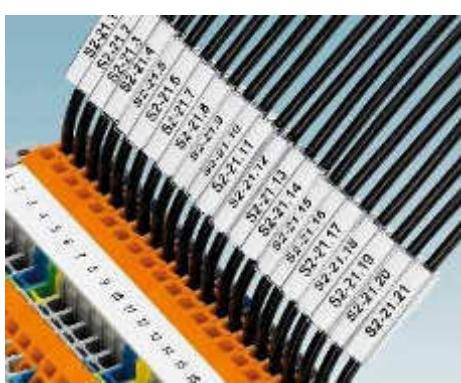
Marking collars for insert labels



Closed marker carrier, for sliding on

- These conductor marking systems consist of marker carriers and insert labels
- The PATG ... collar is a captive marker carrier
- Can be used to mark conductors with a diameter of 0.6 ... 50 mm
- Marking is performed using the matching UC-WMT ..., US-WMT ..., and EMT ...insert labels

Technical data				
Ordering data				
Description	Color	Type	Order No.	Pcs. / Pkt.
Wire marker carrier, closed, 10 mm wide				
Conductor diameter: 0.6-1.2 mm	transparent	PATG 0/10	1013795	1000
Conductor diameter: 1.5-2.5 mm	transparent	PATG 1/10	1013805	1000
Conductor cross section: 2.0-4.0 mm	transparent	PATG 2/10	1013818	1000
Conductor cross section: 4.0-7.0 mm	transparent	PATG 3/10	1013821	500
Wire marker carrier, closed, 12 mm wide				
Conductor diameter: 0.6-1.2 mm	transparent	PATG 0/12	0827076	1000
Conductor diameter: 1.5-2.5 mm	transparent	PATG 1/12	0827077	1000
Conductor cross section: 2.0-4.0 mm	transparent	PATG 2/12	0827078	1000
Conductor cross section: 4.0-7.0 mm	transparent	PATG 3/12	0827079	500
Conductor cross section: 6.0-10.0 mm	transparent	PATG 4/12	0827080	500
Wire marker carrier, closed, 15 mm wide				
Conductor diameter: 0.6-1.2 mm	transparent	PATG 0/15	1013740	1000
Conductor diameter: 1.5-2.5 mm	transparent	PATG 1/15	1013025	1000
Conductor cross section: 2.0-4.0 mm	transparent	PATG 2/15	1013038	1000
Conductor cross section: 4.0-7.0 mm	transparent	PATG 3/15	1013041	500
Conductor cross section: 6.0-10.0 mm	transparent	PATG 4/15	1013054	500
Conductor cross section: 10.0-14.0 mm	transparent	PATG 5/15	1013067	200
Conductor cross section: 14.0-22.0 mm	transparent	PATG 6/15	1013070	200
Conductor cross section: 22.0-30.0 mm	transparent	PATG 7/15	1013083	50
Conductor cross section: 30.0-35.0 mm	transparent	PATG 8/15	1013096	50
Conductor diameter: 35.0 - 45.0 mm	transparent	PATG 9/15	1013106	50
Wire marker carrier, closed, 18 mm wide				
Conductor diameter: 0.6-1.2 mm	transparent	PATG 0/18	0820507	1000
Conductor diameter: 1.5-2.5 mm	transparent	PATG 1/18	0820510	1000
Conductor cross section: 2.0-4.0 mm	transparent	PATG 2/18	0820523	1000
Conductor cross section: 4.0-7.0 mm	transparent	PATG 3/18	0820536	500
Conductor cross section: 6.0-10.0 mm	transparent	PATG 4/18	0820549	500
Conductor cross section: 10.0-14.0 mm	transparent	PATG 5/18	0828059	200
Conductor cross section: 14.0-22.0 mm	transparent	PATG 6/18	0828062	200
Wire marker carrier, closed, 23 mm wide				
Conductor diameter: 0.6-1.2 mm	transparent	PATG 0/23	0828046	1000
Conductor diameter: 1.5-2.5 mm	transparent	PATG 1/23	1013847	1000
Conductor cross section: 2.0-4.0 mm	transparent	PATG 2/23	1013850	500
Conductor cross section: 4.0-7.0 mm	transparent	PATG 3/23	1013863	500
Conductor cross section: 6.0-10.0 mm	transparent	PATG 4/23	0808011	200
Conductor cross section: 10.0-14.0 mm	transparent	PATG 5/23	0808024	200
Conductor cross section: 14.0-22.0 mm	transparent	PATG 6/23	0808037	100
Conductor cross section: 22.0-30.0 mm	transparent	PATG 7/23	0808040	50
Conductor cross section: 30.0-35.0 mm	transparent	PATG 8/23	0808053	50
Wire marker carrier, closed, 30 mm wide				
Conductor diameter: 1.5-2.5 mm	transparent	PATG 1/30	0822440	500
Conductor cross section: 2.0-4.0 mm	transparent	PATG 2/30	0822453	500
Conductor cross section: 4.0-7.0 mm	transparent	PATG 3/30	0822466	200
Conductor cross section: 6.0-10.0 mm	transparent	PATG 4/30	0822479	200
Conductor cross section: 10.0-14.0 mm	transparent	PATG 5/30	0822482	200



Marking collars for insert labels

- Can be labeled using UC-WMT ...
US-WMT ... plastic labels or EMT ...
insert strips

PATO ...

- These marking collars are used for subsequent labeling of systems that have already been wired

PAB-KTL ...

- Marking collars for identifying and bundling conductors

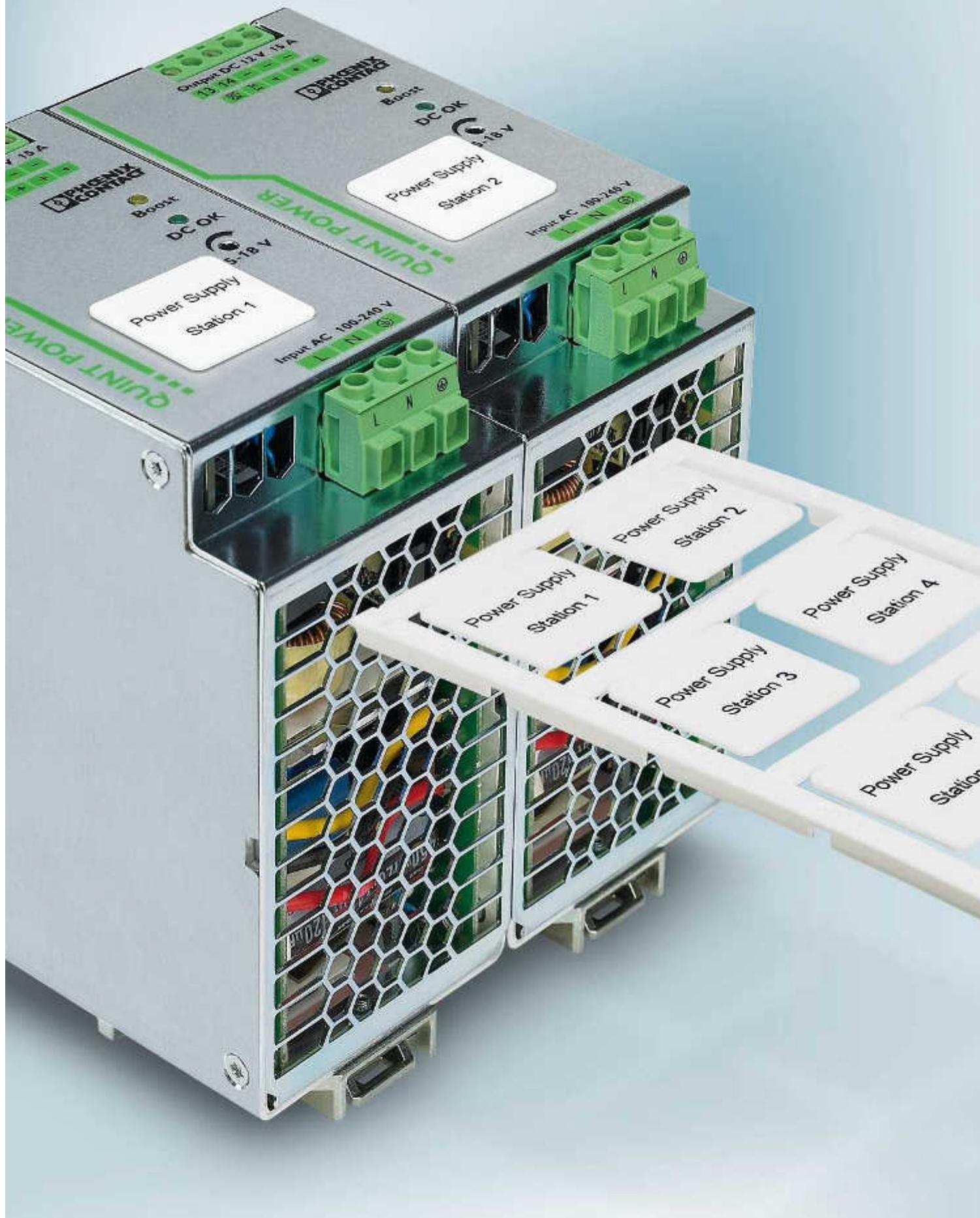


Open marker carrier, for clipping on



For assembly with cable binders

General data		Technical data		Technical data			
		PVC	V0	PVC	V0		
		-50 ... 80	Silicone-free	-50 ... 80	Silicone-free		
		Ordering data		Ordering data			
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Wire marker carrier, open, 10 mm wide							
Conductor cross section: 2.0-3.5 mm	transparent	PATO 1/10	1013876	1000			
Conductor diameter: 2.8 - 4.4 mm	transparent	PATO 2/10	1013889	1000			
Wire marker carrier, open, 12 mm wide							
Conductor cross section: 2.0-3.5 mm	transparent	PATO 1/12	0827081	1000			
Conductor diameter: 2.8 - 4.4 mm	transparent	PATO 2/12	0827082	1000			
Wire marker carrier, open, 15 mm wide							
Conductor cross section: 2.0-3.5 mm	transparent	PATO 1/15	1013119	1000			
Conductor diameter: 2.8 - 4.4 mm	transparent	PATO 2/15	1013122	1000			
Conductor diameter: 6.7 - 8.0 mm	transparent	PATO 3/15	1013135	500			
Conductor diameter: 6.7 - 10.0 mm	transparent	PATO 4/15	1013148	500			
Wire marker carrier, open, 18 mm wide							
Conductor cross section: 2.0-3.5 mm	transparent	PATO 1/18	0823740	500			
Conductor diameter: 2.8 - 4.4 mm	transparent	PATO 2/18	0823753	500			
Wire marker carrier, open, 23 mm wide							
Conductor cross section: 2.0-3.5 mm	transparent	PATO 1/23	1013892	500			
Conductor diameter: 2.8 - 4.4 mm	transparent	PATO 2/23	1013902	500			
Wire marker carrier, open, 30 mm wide							
Conductor cross section: 2.0-3.5 mm	transparent	PATO 1/30	0822495	500			
Conductor diameter: 2.8 - 4.4 mm	transparent	PATO 2/30	0822505	500			
Cable marker carrier , lettering field along the length of cable, labeling with UC-WMT and PABA..., lettering field: 30 x 4 mm, is secured with PKB cable binder							
Lettering field size: 23 x 4 mm, labeling with UC-WMT and PABA.../23	transparent				PAB-KTL	1013261	200
Lettering field size: 23 x 4 mm, labeling with UC-WMT and PABA.../23	transparent				PAB-KTL 23	1013957	200
Plastic cable marker for PKE insert label , can be labeled with PKE insert label, labeling field: 9 mm x 20 mm, with eyelets for fastening to PKB cable binder							
Plastic cable marker for PKE insert label, can be labeled with PKE insert label, labeling field: 9 mm x 20 mm, with eyelets for fastening to PKB cable binder	transparent				PKT 9X20	0803977	240



Device marking - MARKING system

Identifying electrical and electronic control cabinets does not just make service work easier. In some sectors, it is actually a mandatory requirement. Moreover, equipment identification improves the quality of the control cabinets and systems.

Phoenix Contact offers a variety of different markers for device marking. From adhesive labels to high-quality engraving labels, the wide marker range caters for every application.

A variety of printing systems is available for labeling or engraving.

Product range overview

Device marking	228
EM... AL aluminum device marking	
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UniCard UC-EM... and UCT-EM... device marking	
Designed to be stuck on, screwed in or riveted or snapped into marker carriers	234
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UniSheet US-EM... device marking	
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EM... device marking, labels supplied in rolls	
Labels for buttons, continuous and textile labels, labels for rough surfaces, for high-temperature and ESD applications, removable labels, labels with anti-tamper protection	270
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Marking and labeling - MARKING system

Device marking



Explicit marking of electrical and electronic control cabinet components is essential for safe and efficient work. As with comprehensive technical documentation, labeling all operating equipment increases the availability of the switchgear and simplifies maintenance. Last but not least, equipment identification improves the quality of the control cabinets and systems.

Phoenix Contact offers a wide range of labels and tags. Depending on the type, they can be labeled using BLUemark, thermal transfer printers, the plotter, engraving devices, commercially available desktop laser printers or by hand.

For the BLUemark CLED and THERMOMARK CARD, there is a complete range of plastic labels available for control cabinets as well as for buttons and switchgear.

The labels of all the various printing systems feature a high level of wipe and scratch resistance.

The self-adhesive labels are made from a two-layer material and are highly durable, e.g., where buttons and switches are subject to frequent use. The best way to mark these labels is to use the engraving device of the CMS-P1-PLOTTER plotter.

Please contact us if you are unable to find a suitable size or color for your application from the options available in our product range.

It goes without saying that Phoenix Contact also offers a comprehensive engraving and labeling service for device marking applications. Test us out!



Device markers are available in various sizes, materials, and colors. The self-adhesive labels have been designed for use in a wide temperature range.



Drilled labels are available for marking devices and control cabinets. These can be securely attached to the device using screws or rivets.



The CARRIER labeling system is the perfect choice for labeling buttons. It consists of a carrier plus marking label and can be used in control cabinets as well as in the field.



High-temperature labels are ideal for marking PCBs. These labels can safely and permanently withstand temperatures of -40°C to 180°C; or a temperature of 300°C for up to 60 seconds.



Tamper-proof labels are used as rating plates or seals. When they are peeled off, part of the metallic layer comes away, leaving behind a pattern on both the label and the surface.



GPE label sheets consist of a two-layer material that is ideal for engraving. However, the pre-fabricated self-adhesive labels can also be labeled directly by hand or using a plotter.



In the case of small print volumes, labels can also be printed using commercially available desktop laser printers. Copy sheets are provided with margins to make it easier to remove individual labels.



The self-adhesive markers are available in various shapes and sizes. They can be used to mark components, devices, and buttons and are highly resistant to chemical and mechanical effects.



Self-adhesive marker carriers are used in conjunction with marking labels for the purpose of labeling devices and modules. The carriers can be stuck onto all standard surfaces.

Marking and labeling - MARKING system

Device marking

Stick-on aluminum device marking



Can be printed with:



UV LED technology

- The aluminum EMLP-AL... product range includes self-adhesive device markers with a high adhesive strength and is characterized by the following:
- The markers can be labeled quickly, easily, and cost-effectively with the BLUEMARK CLED
- Labeling service: Phoenix Contact can custom-label EMLP ... markers according to your requirements

- A wide range of different marker sizes is available for custom designs. Formats from 27 x 15 to 100 x 60 mm cover the entire range of device and system marking



- By using modern UV LED printing technology, a highly resistant and optimum printing quality can be achieved, which is resistant to solvents and suitable for use even under harsh industrial conditions

- In conjunction with magazines, optimum printing accuracy is guaranteed

General data

Can be printed with:

Material
Wipe resistance

Description

Color

Marking label, aluminum, self-adhesive, 0.8 mm thick

Lettering field size: 27 x 15 mm	silver
Lettering field size: 27 x 18 mm	silver
Lettering field size: 49 x 15 mm	silver
Lettering field size: 60 x 15 mm	silver
Lettering field size: 60 x 30 mm	silver
Lettering field size: 85.6 x 54 mm	silver
Lettering field size: 100 x 60 mm	silver

Marking label, aluminum, self-adhesive, 0.8 mm thick, labeled according to customer specifications¹⁾

Lettering field size: 27 x 15 mm	silver
Lettering field size: 27 x 18 mm	silver
Lettering field size: 49 x 15 mm	silver
Lettering field size: 60 x 15 mm	silver
Lettering field size: 60 x 30 mm	silver
Lettering field size: 85.6 x 54 mm	silver
Lettering field size: 100 x 60 mm	silver

Magazine, for BLUEMARK CLED

for accommodating EMP-AL (27X15), EMLP-AL (27X15)

for accommodating EMP-AL (27X18), EMLP-AL (27X18)

for accommodating EMP-AL (49X15), EMLP-AL (49X15), EMSP-AL (39X15)

for accommodating EMP-AL (60X15), EMLP-AL (60X15), EMSP-AL (50X15)

for accommodating EMP-AL (60X30), EMLP-AL (60X30), EMSP-AL (50X30)

for accommodating EMP-AL (85.6X54), EMLP-AL (85.6X54), EMSP-AL (75.6X54)

for accommodating EMLP-AL (100X60), EMSP-AL (90X60)

Notes:

¹⁾ For ordering example, see page 359.



Unlabeled



Labeled according to customer specifications

Technical data			Technical data		
BLUEMARK CLED Aluminum DIN EN 61010-1 (VDE 0411-1)			-		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
EMLP-AL (27X15)	0830508	90	EMLP-AL (27X15) CUS	0830516	1
EMLP-AL (27X18)	0830509	90	EMLP-AL (27X18) CUS	0830517	1
EMLP-AL (49X15)	0830511	45	EMLP-AL (49X15) CUS	0830519	1
EMLP-AL (60X15)	0830512	45	EMLP-AL (60X15) CUS	0830520	1
EMLP-AL (60X30)	0830513	45	EMLP-AL (60X30) CUS	0830521	1
EMLP-AL (85,6X54)	0830514	15	EMLP-AL (85,6X54) CUS	0830522	1
EMLP-AL (100X60)	0830515	15	EMLP-AL (100X60) CUS	0830523	1
Accessories			Accessories		
BLUEMARK MAG EM-M (27X15)	0802736	1			
BLUEMARK MAG EM-M (27X18)	0802737	1			
BLUEMARK MAG EM-M (49X15)	0802738	1			
BLUEMARK MAG EM-M (60X15)	0802739	1			
BLUEMARK MAG EM-M (60X30)	0802740	1			
BLUEMARK MAG EM-M (85,6X54)	0802741	1			
BLUEMARK MAG EM-M (100X60)	0802742	1			

Marking and labeling - MARKING system

Device marking

Aluminum device marking for screwing or riveting

Can be printed with:

N



UV LED technology

PRINTED
FOR YOU



Unlabeled or labeled according to customer specifications

- The aluminum EMSP-AL... product range includes markers that can be quickly and easily fitted with screws or rivets and is characterized by the following:
- High-quality appearance
- The markers can be labeled quickly, easily, and cost-effectively with the BLUEMARK CLED
- By using modern UV LED printing technology, a highly resistant and optimum printing quality can be achieved, which is resistant to solvents and suitable for use even under harsh industrial conditions
- Labeling service: Phoenix Contact can custom-label EMSP ... markers according to your requirements
- In conjunction with magazines, optimum printing accuracy is guaranteed

Notes:
For corresponding rivets for fixing the EMSP-AL ..., see page 370.
For drilling diagrams, visit www.phoenixcontact.net/products .
¹⁾ For ordering example, see page 359.

General data

Can be printed with:
Material
Wipe resistance

Technical data

BLUEMARK CLED
Aluminum
DIN EN 61010-1 (VDE 0411-1)

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Marking label, aluminum, 0.8 mm thick, with mounting holes 3.2 mm in diameter	aluminum	EMSP-AL (39X15)	0830510	45
Lettering field size: 39 x 15 mm	aluminum	EMSP-AL (50X15)	0830773	45
Lettering field size: 50 x 15 mm	aluminum	EMSP-AL (50X30)	0830502	45
Lettering field size: 50 x 30 mm	aluminum	EMSP-AL (75,6X54)	0830503	15
Lettering field size: 75.6 x 54 mm	aluminum	EMSP-AL (90X60)	0830504	15
Marking label, aluminum, 0.8 mm thick, with mounting holes 3.2 mm in diameter, labeled according to customer specifications ¹⁾				
Lettering field size: 39 x 15 mm	aluminum	EMSP-AL (39X15) CUS	0830518	1
Lettering field size: 50 x 15 mm	aluminum	EMSP-AL (50X15) CUS	0830775	1
Lettering field size: 50 x 30 mm	aluminum	EMSP-AL (50X30) CUS	0830505	1
Lettering field size: 75.6 x 54 mm	aluminum	EMSP-AL (75,6X54) CUS	0830506	1
Lettering field size: 90 x 60 mm	aluminum	EMSP-AL (90X60) CUS	0830507	1

Accessories

Magazine, for BLUEMARK CLED

for accommodating EMP-AL (27X15), EMLP-AL (27X15)
for accommodating EMP-AL (27X18), EMLP-AL (27X18)
for accommodating EMP-AL (49X15), EMLP-AL (49X15),
EMSP-AL (39X15)
for accommodating EMP-AL (60X15), EMLP-AL (60X15),
EMSP-AL (50X15)
for accommodating EMP-AL (60X30), EMLP-AL (60X30),
EMSP-AL (50X30)
for accommodating EMP-AL (85,6X54), EMLP-AL (85,6X54),
EMSP-AL (75,6X54)
for accommodating EMLP-AL (100X60), EMSP-AL (90X60)

BLUEMARK MAG EM-M (27X15)	0802736	1
BLUEMARK MAG EM-M (27X18)	0802737	1
BLUEMARK MAG EM-M (49X15)	0802738	1
BLUEMARK MAG EM-M (60X15)	0802739	1
BLUEMARK MAG EM-M (60X30)	0802740	1
BLUEMARK MAG EM-M (85,6X54)	0802741	1
BLUEMARK MAG EM-M (100X60)	0802742	1

**Aluminum device marking
for snapping into marker carriers**


Can be printed with:



UV LED technology

Unlabeled or labeled
according to customer specifications

- The aluminum EMP-AL ... product range includes markers that can be quickly and easily fitted into existing CARRIER-EMP ... label frames and is characterized by the following:
- The markers can be labeled quickly, easily, and cost-effectively with the BLUEMARK CLED
- By using modern UV LED printing technology, a highly resistant and optimum printing quality can be achieved, which is resistant to solvents and suitable for use even under harsh industrial conditions
- In conjunction with magazines, optimum printing accuracy is guaranteed
- Labeling service: Phoenix Contact can custom-label all EMLP ... markers according to your requirements

Notes:

1) For ordering example, see page 359.

General data

Can be printed with:
Material
Wipe resistance

Technical data

BLUEMARK CLED
Aluminum
DIN EN 61010-1 (VDE 0411-1)

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Marking label, aluminum, 0.8 mm thick, can be snapped into marker carriers				
Lettering field size: 27 x 15 mm	aluminum	EMP-AL (27X15)	0830776	90
Lettering field size: 27 x 18 mm	aluminum	EMP-AL (27X18)	0830777	90
Lettering field size: 49 x 15 mm	aluminum	EMP-AL (49X15)	0830778	45
Lettering field size: 60 x 15 mm	aluminum	EMP-AL (60X15)	0830779	45
Lettering field size: 60 x 30 mm	aluminum	EMP-AL (60X30)	0830796	45
Lettering field size: 85.6 x 54 mm	aluminum	EMP-AL (85,6X54)	0830797	15
Marking label, aluminum, 0.8 mm thick, can be snapped into marker carriers, labeled according to customer specifications¹⁾				
Lettering field size: 27 x 15 mm	aluminum	EMP-AL (27X15) CUS	0830798	1
Lettering field size: 27 x 18 mm	aluminum	EMP-AL (27X18) CUS	0830799	1
Lettering field size: 49 x 15 mm	aluminum	EMP-AL (49X15) CUS	0830800	1
Lettering field size: 60 x 15 mm	aluminum	EMP-AL (60X15) CUS	0830801	1
Lettering field size: 60 x 30 mm	aluminum	EMP-AL (60X30) CUS	0830802	1
Lettering field size: 85.6 x 54 mm	aluminum	EMP-AL (85,6X54) CUS	0830803	1

Accessories**Magazine, for BLUEMARK CLED**

for accommodating EMP-AL (27X15), EMLP-AL (27X15)
for accommodating EMP-AL (27X18), EMLP-AL (27X18)
for accommodating EMP-AL (49X15), EMLP-AL (49X15),
EMSP-AL (39X15)
for accommodating EMP-AL (60X15), EMLP-AL (60X15),
EMSP-AL (50X15)
for accommodating EMP-AL (60X30), EMLP-AL (60X30),
EMSP-AL (50X30)
for accommodating EMP-AL (85,6X54), EMLP-AL (85,6X54),
EMSP-AL (75,6X54)
for accommodating EMLP-AL (100X60), EMSP-AL (90X60)

BLUEMARK MAG EM-M (27X15)	0802736	1
BLUEMARK MAG EM-M (27X18)	0802737	1
BLUEMARK MAG EM-M (49X15)	0802738	1
BLUEMARK MAG EM-M (60X15)	0802739	1
BLUEMARK MAG EM-M (60X30)	0802740	1
BLUEMARK MAG EM-M (85,6X54)	0802741	1
BLUEMARK MAG EM-M (100X60)	0802742	1



Marking and labeling - MARKING system

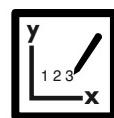
Device marking

UniCard stick-on device marking

Can be printed with:



UV LED technology



Plotter



Unlabeled

- The UC-EMLP ... UniCard labeling range includes self-adhesive device markers with good adhesive properties
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK CLED
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space for including function texts



General data

Can be printed with:

Material

Inflammability class according to UL 94

Temperature range

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

PA

V2

-40 ... 120

[°C]

Wipe resistance

Components

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Technical data

Description

UniCard, with self-adhesive plastic labels

10-section, lettering field size: 11 x 9 mm

Type

Color

Order No.

Pcs. / Pkt.

white

0819291

10

yellow

0822602

10

silver

0828094

10

UC-EMLP (11X9)

UC-EMLP (11X9) YE

UC-EMLP (11X9) SR

UC-EMLP (15X5)

0819301

10

yellow

0822615

10

silver

0828095

10

UC-EMLP (15X5) YE

UC-EMLP (15X5) SR

UC-EMLP (17X9)

0819314

10

white

0822628

10

yellow

0828096

10

silver

0828097

10

UC-EMLP (17X9) YE

UC-EMLP (17X9) SR

UC-EMLP (17X15)

0827885

10

white

0827886

10

yellow

0827887

10

silver

0819327

10

UC-EMLP (20X8)

UC-EMLP (20X8) YE

UC-EMLP (20X8) SR

UC-EMLP (22X22)

0825463

10

white

0825464

10

yellow

0825465

10

silver

0825466

10

UC-EMLP (27X12,5)

UC-EMLP (27X12,5) YE

UC-EMLP (27X12,5) SR

UC-EMLP (27X18)

0825469

10

white

0825470

10

yellow

0825471

10

silver

0825472

10

UC-EMLP (27X18) YE

UC-EMLP (27X18) SR

UC-EMLP (27X27)

0825473

10

white

0825481

10

yellow

0825482

10

silver

0825483

10

UC-EMLP (49X15)

UC-EMLP (49X15) YE

UC-EMLP (49X15) SR

UC-EMLP (60X15)

0827903

10

white

0827904

10

yellow

0827905

10

silver

0827906

10

UC-EMLP (60X15) YE

UC-EMLP (60X15) SR

UC-EMLP (60X30)

0819330

10

white

0822644

10

yellow

0828088

10

silver

0828091

10

UC-EMLP (60X30) SR

Accessories

Magazine, for CMS-P1-PLOTTER

P1 UC-MAG 6

5146121

1

UniCard stick-on device marking

- All UC-EMLP ... self-adhesive device markers can also be supplied labeled according to customer requirements

Notes:

1) For ordering example, see page 359.

**Labeled according to customer specifications**

Technical data			
Ordering data			
Description	Color	Type	Pcs. / Pkt.
UniCard, with self-adhesive plastic labels, labeled according to customer specifications¹⁾			
10-section, lettering field size: 11 x 9 mm	white yellow silver	UC-EMLP (11X9) CUS UC-EMLP (11X9) YE CUS UC-EMLP (11X9) SR CUS	0824547 0824548 0828098
10-section, lettering field size: 15 x 5 mm	white yellow silver	UC-EMLP (15X5) CUS UC-EMLP (15X5) YE CUS UC-EMLP (15X5) SR CUS	0824550 0824551 0828099
10-section, lettering field size: 17 x 9 mm	white yellow silver	UC-EMLP (17X9) CUS UC-EMLP (17X9) YE CUS UC-EMLP (17X9) SR CUS	0824553 0824554 0828100
10-section, lettering field size: 17 x 15 mm	white silver yellow	UC-EMLP (17X15) CUS UC-EMLP (17X15) SR CUS UC-EMLP (17X15) YE CUS	0827941 0827942 0827943
10-section, lettering field size: 20 x 8 mm	white yellow silver	UC-EMLP (20X8) CUS UC-EMLP (20X8) YE CUS UC-EMLP (20X8) SR CUS	0824556 0824557 0828101
6-section, lettering field size: 22 x 22 mm	white yellow silver	UC-EMLP (22X22) CUS UC-EMLP (22X22) YE CUS UC-EMLP (22X22) SR CUS	0826985 0826986 0826987
8-section, lettering field size: 27 x 12.5 mm	white yellow silver	UC-EMLP (27X12,5) CUS UC-EMLP (27X12,5) YE CUS UC-EMLP (27X12,5) SR CUS	0826967 0826968 0826969
8-section, lettering field size: 27 x 18 mm	white yellow silver	UC-EMLP (27X18) CUS UC-EMLP (27X18) YE CUS UC-EMLP (27X18) SR CUS	0826970 0826971 0826972
6-section, lettering field size: 27 x 27 mm	white yellow silver	UC-EMLP (27X27) CUS UC-EMLP (27X27) YE CUS UC-EMLP (27X27) SR CUS	0826973 0826974 0826975
4-section, lettering field size: 49 x 15 mm	white silver yellow	UC-EMLP (49X15) CUS UC-EMLP (49X15) SR CUS UC-EMLP (49X15) YE CUS	0827947 0827948 0827949
4-section, lettering field size: 60 x 15 mm	white yellow silver	UC-EMLP (60X15) CUS UC-EMLP (60X15) YE CUS UC-EMLP (60X15) SR CUS	0824559 0824560 0828090
3-section, lettering field size: 60 x 30 mm	white yellow silver	UC-EMLP (60X30) CUS UC-EMLP (60X30) YE CUS UC-EMLP (60X30) SR CUS	0824562 0824563 0828093

Marking and labeling - MARKING system

Device marking

UniCard device marking for screwing or riveting



Can be printed with:



UV LED technology



Plotter



Unlabeled or labeled according to customer specifications

- The UC-EMSP ... UniCard labeling range includes markers that can be attached using screws or rivets
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK CLED
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

For corresponding rivets for fixing the UC-EMSP ..., see page 370.

For drilling diagrams, visit www.phoenixcontact.net/products.

¹⁾ For ordering example, see page 359.

General data

Can be printed with:

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

PA

V2

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Technical data

Description

UniCard, plastic labels with mounting holes 3.2 mm in diameter

4-section, lettering field size: 50 x 15 mm

Type

Order No.

Pcs. / Pkt.

white

0828706

10

yellow

0828707

10

silver

0828708

10

3-section, lettering field size: 50 x 30 mm

white

0828709

10

yellow

0828710

10

silver

0828711

10

UniCard, plastic labels with mounting holes 3.2 mm in diameter, labeled acc. to customer specifications¹⁾

4-section, lettering field size: 50 x 15 mm

white

0829103

1

yellow

0829104

1

silver

0829105

1

3-section, lettering field size: 50 x 30 mm

white

0829106

1

yellow

0829107

1

silver

0829108

1

Accessories

Magazine, for CMS-P1-PLOTTER

P1 UC-MAG 6

5146121

1

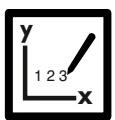
UniCard device marking that can be snapped into marker carriers



Can be printed with:



UV LED technology



Plotter



Unlabeled or labeled
according to customer specifications

- The UC-EMP ... UniCard labeling range includes markers that can be fitted into existing CARRIER-EMP ... label frames
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK CLED
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

For matching label frames, see page 296.

¹⁾ For ordering example, see page 359.

General data

Can be printed with:

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

PA

V2

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Technical data

Description

UniCard, 1.2 mm thick
8-section, lettering field size: 17 x 15 mm

8-section, lettering field size: 27 x 15 mm

4-section, lettering field size: 49 x 15 mm

4-section, lettering field size: 60 x 15 mm

3-section, lettering field size: 60 x 30 mm

UniCard, 1.2 mm thick, labeled acc. to customer specifications¹⁾
8-section, lettering field size: 17 x 15 mm

8-section, lettering field size: 27 x 15 mm

4-section, lettering field size: 49 x 15 mm

4-section, lettering field size: 60 x 15 mm

3-section, lettering field size: 60 x 30 mm

Magazine, for CMS-P1-PLOTTER

P1 UC-MAG 6

Type	Order No.	Pcs. / Pkt.	
white	UC-EMP (17X15)	0825421	10
yellow	UC-EMP (17X15) YE	0825422	10
silver	UC-EMP (17X15) SR	0825423	10
white	UC-EMP (27X15)	0825439	10
yellow	UC-EMP (27X15) YE	0825440	10
silver	UC-EMP (27X15) SR	0825441	10
white	UC-EMP (49X15)	0825457	10
yellow	UC-EMP (49X15) YE	0825458	10
silver	UC-EMP (49X15) SR	0825459	10
white	UC-EMP (60X15)	0822259	10
yellow	UC-EMP (60X15) YE	0825330	10
silver	UC-EMP (60X15) SR	0827647	10
white	UC-EMP (60X30)	0822275	10
yellow	UC-EMP (60X30) YE	0825331	10
silver	UC-EMP (60X30) SR	0827648	10
white	UC-EMP (17X15) CUS	0827626	1
yellow	UC-EMP (17X15) YE CUS	0827638	1
silver	UC-EMP (17X15) SR CUS	0827649	1
white	UC-EMP (27X15) CUS	0827633	1
yellow	UC-EMP (27X15) YE CUS	0827642	1
silver	UC-EMP (27X15) SR CUS	0827653	1
white	UC-EMP (49X15) CUS	0827636	1
yellow	UC-EMP (49X15) YE CUS	0827645	1
silver	UC-EMP (49X15) SR CUS	0827656	1
white	UC-EMP (60X15) CUS	0824569	1
yellow	UC-EMP (60X15) YE CUS	0826685	1
silver	UC-EMP (60X15) SR CUS	0827657	1
white	UC-EMP (60X30) CUS	0824571	1
yellow	UC-EMP (60X30) YE CUS	0826687	1
silver	UC-EMP (60X30) SR CUS	0827658	1

Accessories

Magazine, for CMS-P1-PLOTTER	P1 UC-MAG 6	5146121	1
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Marking and labeling - MARKING system

Device marking

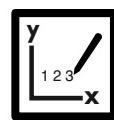
UniCard device marking that can be snapped into marker carriers



Can be printed with:



UV LED technology



Plotter



Unlabeled

- The UC-EMP ... UniCard labeling range includes markers for all applications
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK CLED
- The format automatically ensures printing with a high level of positional accuracy
- The UC-EMP ... device markers are ideal for fitting into existing CARRIER-EMP ... label frames
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space for including function texts

Notes:

For matching label frames, see page 296.

General data

Can be printed with:

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

PA

V2

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Technical data

Description

UniCard, 1.2 mm thick
10-section, lettering field size: 27 x 8 mm

Type

UC-EMP (27X8)
UC-EMP (27X8) YE
UC-EMP (27X8) SR

Order No.

0825427
0825428
0825429

Pcs. / Pkt.

10
10
10

8-section, lettering field size: 27 x 12.5 mm

UC-EMP (27X12,5)
UC-EMP (27X12,5) YE
UC-EMP (27X12,5) SR

0825433
0825434
0825435

10
10
10

8-section, lettering field size: 27 x 15 mm

UC-EMP (27X15)
UC-EMP (27X15) YE
UC-EMP (27X15) SR

0825439
0825440
0825441

10
10
10

8-section, lettering field size: 27 x 18 mm

UC-EMP (27X18)
UC-EMP (27X18) YE
UC-EMP (27X18) SR

0825445
0825446
0825447

10
10
10

6-section, lettering field size: 27 x 27 mm

UC-EMP (27X27)
UC-EMP (27X27) YE
UC-EMP (27X27) SR

0825451
0825452
0825453

10
10
10

Accessories

Magazine, for CMS-P1-PLOTTER

P1 UC-MAG 6

5146121

1

UniCard device marking that can be snapped into marker carriers

- All UC-EMP ... device markers can also be supplied labeled according to customer requirements

Notes:

¹⁾ For ordering example, see page 359.



Labeled according to customer specifications

General data

Material	PA
Inflammability class according to UL 94	V2
Temperature range	[°C] -40 ... 120
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)

Components

free from silicone and halogen

Technical data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, 1.2 mm thick, labeled acc. to customer specifications¹⁾				
10-section, lettering field size: 27 x 8 mm	white	UC-EMP (27X8) CUS	0827631	1
	yellow	UC-EMP (27X8) YE CUS	0827640	1
	silver	UC-EMP (27X8) SR CUS	0827651	1
8-section, lettering field size: 27 x 12.5 mm	white	UC-EMP (27X12,5) CUS	0827632	1
	yellow	UC-EMP (27X12,5) YE CUS	0827641	1
	silver	UC-EMP (27X12,5) SR CUS	0827652	1
8-section, lettering field size: 27 x 15 mm	white	UC-EMP (27X15) CUS	0827633	1
	yellow	UC-EMP (27X15) YE CUS	0827642	1
	silver	UC-EMP (27X15) SR CUS	0827653	1
8-section, lettering field size: 27 x 18 mm	white	UC-EMP (27X18) CUS	0827634	1
	yellow	UC-EMP (27X18) YE CUS	0827643	1
	silver	UC-EMP (27X18) SR CUS	0827654	1
6-section, lettering field size: 27 x 27 mm	white	UC-EMP (27X27) CUS	0827635	1
	yellow	UC-EMP (27X27) YE CUS	0827644	1
	silver	UC-EMP (27X27) SR CUS	0827655	1

Marking and labeling - MARKING system

Device marking

UniCard snap-in device marking

Can be printed with:



UV LED technology



Plotter



- The UC-EM ... UniCard labeling range includes markers for devices and switchgear from a wide variety of manufacturers
- An overview of the devices that support labeling plus their manufacturers can be found starting on page 304
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK CLED
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

1) For ordering example, see page 359.

General data

Can be printed with:

Number of individual labels

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

20

PA

V2

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

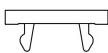
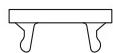
Technical data

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard , for labeling devices from the following manufacturers: Siemens Lettering field size: 10 x 7 mm	white	UC-EM (10X7)	0825487	10
Lettering field size: 10 x 7 mm	turquoise	UC-EM (10X7) TQ	0825488	10
UniCard , for labeling devices from the following manufacturers: Bosch Rexroth, ifm-electronic, Lumberg, Pepperl & Fuchs, Siemens Lettering field size: 10 x 8 mm	white			
Lettering field size: 10 x 8 mm	turquoise			
UniCard , for labeling devices from the following manufacturers: ABB, Lumberg Lettering field size: 17.5 x 7.5 mm	white			
UniCard , for labeling devices from the following manufacturers: ABB, ifm-electronic, Moeller, Murr Elektronik Lettering field size: 17.5 x 8 mm	white			
UniCard , for labeling devices from the following manufacturers: see previous products, labeled according to customer specifications! Lettering field size: 10 x 7 mm	white turquoise	UC-EM (10X7) CUS UC-EM (10X7) TQ CUS	0827623 0827659	1 1
UniCard , for labeling devices from the following manufacturers: see previous products, labeled according to customer specifications! Lettering field size: 10 x 8 mm	white turquoise			
UniCard , for labeling devices from the following manufacturers: see previous products, labeled according to customer specifications! Lettering field size: 17.5 x 7.5 mm	white			
UniCard , for labeling devices from the following manufacturers: see previous products, labeled according to customer specifications! Lettering field size: 17.5 x 8 mm	white			

Accessories

Magazine , for CMS-P1-PLOTTER	P1 UC-MAG 6	5146121	1
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Technical data			Technical data			Technical data		
BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER 20 PA V2 -40 ... 120 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen			BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER 20 PA V2 -40 ... 120 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen			BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER 20 PA V2 -40 ... 120 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UC-EM (10x8) UC-EM (10x8) TQ	0825491 0825492	10 10	UC-EM (17,5x7,5)	0825495	10	UC-EM (17,5x8)	0823766	10
UC-EM (10x8) CUS UC-EM (10x8) TQ CUS	0827624 0827660	1 1	UC-EM (17,5x7,5) CUS	0827625	1	UC-EM (17,5x8) CUS	0824567	1
Accessories			Accessories			Accessories		
P1 UC-MAG 6	5146121	1	P1 UC-MAG 6	5146121	1	P1 UC-MAG 6	5146121	1

Marking and labeling - MARKING system

Device marking

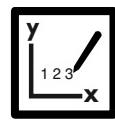
UniCard snap-in device marking



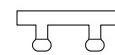
Can be printed with:



UV LED technology



Plotter



- The UC-EM ... UniCard labeling range includes markers for devices and switchgear from a wide variety of manufacturers
- An overview of the devices that support labeling plus their manufacturers can be found starting on page 304
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK CLED
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

1) For ordering example, see page 359.

General data

Can be printed with:

Number of individual labels

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

20

PA

V2

-40 ... 120

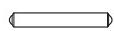
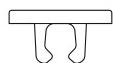
DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Technical data

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard , for labeling devices from the following manufacturers: Murr Elektronik, Phoenix Contact, Weidmüller				
Lettering field size: 17 x 9 mm	white yellow	UC-EM (17,5X9) UC-EM (17,5X9) YE	0827490 0827494	10 10
UniCard , for labeling devices from the following manufacturers: Schneider Electric, ifm-electronic				
Lettering field size: 18 x 8 mm	white			
UniCard , for labeling devices from the following manufacturers: Lumberg, Weidmüller				
Lettering field size: 19 x 9 mm	white yellow			
UniCard , for labeling devices from the following manufacturers: Harting, ifm-electronic, Phoenix Contact, Siemens				
Lettering field size: 20 x 7 mm	white turquoise			
UniCard , for labeling devices from the following manufacturers: see previous products, labeled according to customer specifications¹⁾				
Lettering field size: 17.5 x 9 mm	white yellow	UC-EM (17,5X9) CUS UC-EM (17,5X9) YE CUS	0828238 0828239	1 1
UniCard , for labeling devices from the following manufacturers: see previous products, labeled according to customer specifications¹⁾				
Lettering field size: 18 x 8 mm	white			
UniCard , for labeling devices from the following manufacturers: see previous products, labeled according to customer specifications¹⁾				
Lettering field size: 19 x 9 mm	white yellow			
UniCard , for labeling devices from the following manufacturers: see previous products, labeled according to customer specifications¹⁾				
Lettering field size: 20 x 7 mm	white turquoise			
Accessories				
Magazine , for CMS-P1-PLOTTER		P1 UC-MAG 6	5146121	1



Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
20
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
20
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
20
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
UC-EM (18x8)	0825497	10

Ordering data

Type	Order No.	Pcs. / Pkt.
UC-EM (19X9) UC-EM (19X9) YE	0827492 0827496	10 10

Ordering data

Type	Order No.	Pcs. / Pkt.
UC-EM (20X7) UC-EM (20X7) TQ	0825499 0825500	10 10

Accessories

P1 UC-MAG 6	5146121	1
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Accessories

P1 UC-MAG 6	5146121	1
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Accessories

P1 UC-MAG 6	5146121	1
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Marking and labeling - MARKING system

Device marking

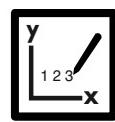
UniCard snap-in device marking



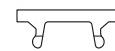
Can be printed with:



UV LED technology



Plotter



PRINTED
FOR YOU



- The UC-EM ... UniCard labeling range includes markers for devices and switchgear from a wide variety of manufacturers
- An overview of the devices that support labeling plus their manufacturers can be found starting on page 304
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK CLED
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

1) For ordering example, see page 359.

General data

Can be printed with:

Number of individual labels

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

20

PA

V2

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

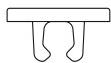
Technical data

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for labeling devices from the following manufacturers: ABB, Conta Clip, Escha, Festo, ifm-electronik, Harting, Moeller, Phoenix Contact, Siemens				
Lettering field size: 20 x 9 mm	white	UC-EM (20X9)	0825503	10
Lettering field size: 20 x 9 mm	yellow	UC-EM (20X9) YE	0827637	10
Lettering field size: 20 x 9 mm	turquoise	UC-EM (20X9) TQ	0825504	10
UniCard, for labeling devices from the following manufacturers: Schneider Electric, ifm-electronic, Murr Elektronik				
Lettering field size: 21 x 8 mm	white			
UniCard, for labeling devices from the following manufacturers: see previous products, labeled according to customer specifications!				
Lettering field size: 20 x 9 mm	white	UC-EM (20X9) CUS	0827629	1
Lettering field size: 20 x 9 mm	yellow	UC-EM (20X9) YE CUS	0827639	1
Lettering field size: 20 x 9 mm	turquoise	UC-EM (20X9) TQ CUS	0827662	1
UniCard, for labeling devices from the following manufacturers: see previous products, labeled according to customer specifications!				
Lettering field size: 21 x 8 mm	white			

Accessories

Magazine, for CMS-P1-PLOTTER	P1 UC-MAG 5	5146118	1
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PRINTED
FOR YOU



Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER

20

PA

V2

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
UC-EM (21X8)	0825507	10
UC-EM (21X8) CUS	0827630	1

Accessories

P1 UC-MAG 5	5146118	1
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Marking and labeling - MARKING system

Device marking

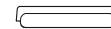
UniCard snap-in device marking for AxioLine E series

N

Can be printed with:

Thermal transfer for sheets
and cards

UV LED technology

PRINTED
FOR YOU

- The markers, which are supplied in uniform sheets, can be labeled quickly and easily using the BLUemark CLED and THERMOMARK CARD products
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

¹⁾ For ordering example, see page 359.

General data

Can be printed with:

Number of individual labels

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

THERMOMARK CARD PLUS • THERMOMARK CARD •

BLUemark CLED • BLUemark LED

30

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Free from silicone, halogen and cadmium

Technical data

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for labeling Phoenix Contact devices, AxioLine Lettering field size: 7 x 10 mm	white	UCT-EM (7X10)	0830765	10
UniCard, for labeling Phoenix Contact devices, AxioLine, labeled according to customer specifications ¹⁾ Lettering field size: 7 x 10 mm	white	UCT-EM (7X10) CUS	0830766	1

Accessories

Magazine, for THERMOMARK CARD ..., for accommodating UCT-WMT ... sheets, UCT-EM (17X10)	THERMOMARK CARD-UCT-MAG7	0801734	1
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UniCard snap-in device marking for devices from other manufacturers



The UCT-EM ... UniCard labeling range includes markers for devices and switchgear from a wide range of manufacturers.

- The markers, which are supplied in uniform sheets, can be labeled quickly and easily using the BLUEMARK CLED and THERMOMARK CARD products
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space for including function texts
- An overview of the devices that support labeling plus their manufacturers can be found starting on page 304
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Can be printed with:



Thermal transfer for sheets and cards



UV LED technology



PRINTED
FOR YOU



General data

Can be printed with:

Number of individual labels

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

THERMOMARK CARD PLUS • THERMOMARK CARD •
BLUEMARK CLED • BLUEMARK LED

66

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Technical data

Description

Color

UniCard, for labeling devices from the following manufacturers:

Conta Clip, Murr Elektronik

Lettering field size: 5 x 10 mm

white

UniCard, for labeling devices from the following manufacturers:
see previous products, **labeled according to customer specifications¹⁾**

Lettering field size: 5 x 10 mm

white

Ordering data

Type	Order No.	Pcs. / Pkt.
UCT-EM (5X10)	0801497	10
UCT-EM (5X10) CUS	0801583	1

Magazine, for THERMOMARK CARD ... for accommodating: UCT-TM ..., UCT1-TM ..., UCT5-TM ..., UCT-EM (5X10), UCT-EM (6X10)

Accessories

THERMOMARK CARD-UCT-MAG1	5146480	1
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Notes:

¹⁾ For ordering example, see page 359.

Marking and labeling - MARKING system

Device marking

UniCard snap-in device marking for devices from other manufacturers



The UCT-EM ... UniCard labeling range includes markers for devices and switchgear from a wide range of manufacturers.

- The markers, which are supplied in uniform sheets, can be labeled quickly and easily using the BLUEMARK CLED and THERMOMARK CARD products
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space for including function texts
- An overview of the devices that support labeling plus their manufacturers can be found starting on page 304
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

1) For ordering example, see page 359.

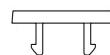
Can be printed with:



Thermal transfer for sheets and cards



UV LED technology



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Technical data

General data

Can be printed with:

Number of individual labels

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

THERMOMARK CARD PLUS • THERMOMARK CARD •
BLUEMARK CLED • BLUEMARK LED

54

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

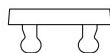
free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for labeling devices from the following manufacturers: Conta Clip, Festo, Finder Lettering field size: 6 x 10 mm	white	UCT-EM (6X10)	0801493	10
UniCard, for labeling devices from the following manufacturers: Beckhoff, Escha, Lumberg, Murr Elektronik, Pepperl & Fuchs, Turck Lettering field size: 10 x 5 mm	white			
UniCard, for labeling devices from the following manufacturers: Siemens Lettering field size: 10 x 7 mm	white			
UniCard, for labeling devices from the following manufacturers: Bosch/Rexroth, ifm-electronic, Lumberg, Pepperl & Fuchs, Siemens Lettering field size: 10 x 8 mm	turquoise			
UniCard, for labeling devices from the following manufacturers: see previous products, labeled according to customer specifications¹⁾ Lettering field size: 6 x 10 mm	white	UCT-EM (6X10) CUS	0801579	1
UniCard, for labeling devices from the following manufacturers: see previous products, labeled according to customer specifications¹⁾ Lettering field size: 10 x 5 mm	white			
UniCard, for labeling devices from the following manufacturers: see previous products, labeled according to customer specifications¹⁾ Lettering field size: 10 x 7 mm	white			
UniCard, for labeling devices from the following manufacturers: see previous products, labeled according to customer specifications¹⁾ Lettering field size: 10 x 8 mm	turquoise			

Accessories

Magazine, for THERMOMARK CARD ... for accommodating: UCT-TM ..., UCT1-TM ..., UCT5-TM ..., UCT-EM (5X10), UCT-EM (6X10)	THERMOMARK CARD-UCT-MAG1	5146480	1
Magazine, for THERMOMARK CARD ... for accommodating UCT-EM (10X5)			
Magazine, for THERMOMARK CARD ... for accommodating UCT-EM (10X7)			
Magazine, for THERMOMARK CARD ... for accommodating UCT-EM (10X8), UCT-EM (12X7)			



Technical data			Technical data			Technical data		
THERMOMARK CARD PLUS • THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED 60 PC V0 -40 ... 120 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen	THERMOMARK CARD PLUS • THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED 36 PC V0 -40 ... 120 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen		THERMOMARK CARD PLUS • THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED 36 PC V0 -40 ... 120 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen			THERMOMARK CARD PLUS • THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED 36 PC V0 -40 ... 120 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UCT-EM (10X5)	0801470	10	UCT-EM (10X7) UCT-EM (10X7) TQ	0801498 0801499	10 10	UCT-EM (10X8) UCT-EM (10X8) TQ	0801485 0801486	10 10
UCT-EM (10X5) CUS	0801554	1	UCT-EM (10X7) CUS UCT-EM (10X7) TQ CUS	0801585 0801586	1 1	UCT-EM (10X8) CUS UCT-EM (10X8) TQ CUS	0801570 0801572	1 1
Accessories			Accessories			Accessories		
THERMOMARK CARD-UCT-MAG13	0830400	1	THERMOMARK CARD-UCT-MAG20	0830751	1	THERMOMARK CARD-UCT-MAG12	0830399	1

Marking and labeling - MARKING system

Device marking

UniCard snap-in device marking for devices from other manufacturers



The UCT-EM ... UniCard labeling range includes markers for devices and switchgear from a wide range of manufacturers.

- The markers, which are supplied in uniform sheets, can be labeled quickly and easily using the BLUEMARK CLED and THERMOMARK CARD products
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space for including function texts
- An overview of the devices that support labeling plus their manufacturers can be found starting on page 304
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

1) For ordering example, see page 359.

Can be printed with:



Thermal transfer for sheets and cards



UV LED technology



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Technical data

General data

Can be printed with:

Number of individual labels

THERMOMARK CARD PLUS • THERMOMARK CARD •
BLUEMARK CLED • BLUEMARK LED

Material

30

Inflammability class according to UL 94

PC

Temperature range

V0

Wipe resistance

-40 ... 120

Components

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

[°C]

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for labeling devices from the following manufacturers: Bernecke + Rainer Lettering field size: 12 x 3.3 mm	white	UCT-EM (12X3,3)	0801502	10
UniCard, for labeling devices from the following manufacturers: Bernecke + Rainer Lettering field size: 12 x 6 mm	white			
UniCard, for labeling devices from the following manufacturers: Beckhoff, Wago Lettering field size: 12 x 7 mm	white			
UniCard, for labeling devices from the following manufacturers: Siemens Lettering field size: 15 x 10 mm	white			
UniCard, for labeling devices from the following manufacturers: see previous products, labeled according to customer specifications¹⁾ Lettering field size: 12 x 3.3 mm Lettering field size: 12 x 6 mm Lettering field size: 12 x 7 mm Lettering field size: 15 x 10 mm	white white white white	UCT-EM (12X3,3) CUS	0801577	1

Accessories

Magazine, for THERMOMARK CARD ...
for accommodating UCT-EM (12X3,3), UCT-EM (12X6)

THERMOMARK CARD-UCT-MAG9

0801736

1

Magazine, for THERMOMARK CARD ...
for accommodating UCT-EM (12X3,3), UCT-EM (12X6)

Magazine, for THERMOMARK CARD ...
for accommodating UCT-EM (10X8), UCT-EM (12X7)

Magazine, for THERMOMARK CARD ...
for accommodating UCT-EM (17,5X8), UCT-EM (20X7),
UCT-EM (15X10)



Technical data			Technical data			Technical data		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UCT-EM (12X6)	0801503	10	UCT-EM (12X7)	0801501	10	UCT-EM (15X10)	0801504	10
UCT-EM (12X6) CUS	0801578	1	UCT-EM (12X7) CUS	0801587	1	UCT-EM (15X10) CUS	0801588	1
Accessories			Accessories			Accessories		
THERMOMARK CARD-UCT-MAG9	0801736	1	THERMOMARK CARD-UCT-MAG12	0830399	1	THERMOMARK CARD-UCT-MAG8	0801735	1

Marking and labeling - MARKING system

Device marking

UniCard snap-in device marking for devices from other manufacturers



The UCT-EM ... UniCard labeling range includes markers for devices and switchgear from a wide range of manufacturers.

- The markers, which are supplied in uniform sheets, can be labeled quickly and easily using the BLUEMARK CLED and THERMOMARK CARD products
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space for including function texts
- An overview of the devices that support labeling plus their manufacturers can be found starting on page 304
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Can be printed with:



Thermal transfer for sheets and cards



UV LED technology



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Technical data

General data

Can be printed with:

Number of individual labels

THERMOMARK CARD PLUS • THERMOMARK CARD •
BLUEMARK CLED • BLUEMARK LED

Material

24

Inflammability class according to UL 94

PC

Temperature range

V0

Wipe resistance

-40 ... 120

Components

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

[°C]

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for labeling devices from the following manufacturers: ABB, Festo, Finder, Murr Elektronik, Wago		UCT-EM (17X9) UCT-EM (17X9) YE	0801475 0801476	10 10
Lettering field size: 17 x 9 mm	white			
Lettering field size: 17 x 9 mm	yellow			
UniCard, for labeling devices from the following manufacturers: Allen-Bradley, Festo				
Lettering field size: 17 x 10 mm	white			
Lettering field size: 17 x 10 mm	yellow			
UniCard, for labeling devices from the following manufacturers: ABB, Lumberg				
Lettering field size: 17.5 x 7.5 mm	white			
UniCard, for labeling devices from the following manufacturers: ABB, Schneider Electric, ifm-electronic, Murr Elektronik				
Lettering field size: 17 x 8 mm	white			
Lettering field size: 17 x 9 mm	white			
Lettering field size: 17 x 9 mm	yellow			
Lettering field size: 17 x 10 mm	white			
Lettering field size: 17 x 10 mm	yellow			
Lettering field size: 17.5 x 7.5 mm	white			
Lettering field size: 17 x 8 mm	white			

Accessories

Magazine, for THERMOMARK CARD ...

THERMOMARK CARD-UCT-MAG16

0830403

1

for accommodating UCT-EM (17 x 9)

Magazine, for THERMOMARK CARD ...

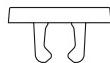
for accommodating UCT-EM (17X10) and (20X8)

Magazine, for THERMOMARK CARD ...

for accommodating UCT-EM (17,5x7,5)

Magazine, for THERMOMARK CARD ...

for accommodating UCT-EM (21X8) and UCT EM (17X8)



Technical data		
THERMOMARK CARD PLUS • THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED		
20 PC V0 -40 ... 120 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen		

Technical data		
THERMOMARK CARD PLUS • THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED		
24 PC V0 -40 ... 120 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen		

Technical data		
THERMOMARK CARD PLUS • THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED		
18 PC V0 -40 ... 120 DIN EN 61010-1 (VDE 0411-1) free from silicone, halogen and cadmium		

Ordering data		
Type	Order No.	Pcs. / Pkt.
UCT-EM (17X10)	0801483	10
UCT-EM (17X10) YE	0801484	10
UCT-EM (17X10) CUS	0801567	1
UCT-EM (17X10) YE CUS	0801569	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
UCT-EM (17,5X7,5)	0801482	10
UCT-EM (17,5X7,5) CUS	0801566	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
UCT-EM (17X8)	0801842	10
UCT-EM (17X8) CUS	1014400	1

Accessories		
THERMOMARK CARD-UCT-MAG11	0801738	1
THERMOMARK CARD-UCT-MAG18	0830405	1
THERMOMARK CARD-UCT-MAG14	0830401	1

Accessories		

Accessories		

Marking and labeling - MARKING system

Device marking

UniCard snap-in device marking for devices from other manufacturers



The UCT-EM ... UniCard labeling range includes markers for devices and switchgear from a wide range of manufacturers.

- The markers, which are supplied in uniform sheets, can be labeled quickly and easily using the BLUEMARK CLED and THERMOMARK CARD products
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space for including function texts
- An overview of the devices that support labeling plus their manufacturers can be found starting on page 304
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

1) For ordering example, see page 359.

Can be printed with:



Thermal transfer for sheets and cards



UV LED technology



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Technical data

General data

Can be printed with:

Number of individual labels

THERMOMARK CARD PLUS • THERMOMARK CARD •
BLUEMARK CLED • BLUEMARK LED

Material

24

Inflammability class according to UL 94

PC

Temperature range

V0

Wipe resistance

-40 ... 120

Components

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

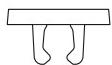
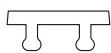
[°C]

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for labeling devices from the following manufacturers: ABB, ifm-electronic, Moeller, Murr Elektronik	white	UCT-EM (17,5X8)	0801496	10
Lettering field size: 17.5 x 8 mm	white			
UniCard, for labeling devices from the following manufacturers: Murr Elektronik, Phoenix Contact, Weidmüller	yellow			
Lettering field size: 17.5 x 9 mm	white			
Lettering field size: 17.5 x 9 mm	yellow			
UniCard, for marking devices from the following manufacturers: ABB, Schneider Electric, ifm-electronic, Murr Elektronik	white			
Lettering field size: 18 x 8 mm	white			
UniCard, for labeling devices from the following manufacturers: ifm-electronic, Phoenix Contact, Siemens	turquoise			
Lettering field size: 20 x 7 mm	white			
Lettering field size: 20 x 7 mm	turquoise			
UniCard, for labeling devices from the following manufacturers: see previous products, labeled according to customer specifications!				
Lettering field size: 17.5 x 8 mm	white	UCT-EM (17,5X8) CUS	0801582	1
Lettering field size: 17.5 x 9 mm	white			
Lettering field size: 17.5 x 9 mm	yellow			
Lettering field size: 18 x 8 mm	white			
Lettering field size: 20 x 7 mm	white			
Lettering field size: 20 x 7 mm	turquoise			

Accessories

Magazine, for THERMOMARK CARD ... for accommodating UCT-EM (17,5X8), UCT-EM (20X7), UCT-EM (15X10)	THERMOMARK CARD-UCT-MAG8	0801735	1
Magazine, for THERMOMARK CARD ... for accommodating UCT-EM (17,5X9)			
Magazine, for THERMOMARK CARD ... for accommodating UCT-EM (18 x 8)			



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**PRINTED
FOR YOU**



**PRINTED
FOR YOU**



Technical data		
THERMOMARK CARD PLUS • THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED		
24		
PC		
V0		
-40 ... 120		
DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen		

Technical data		
THERMOMARK CARD PLUS • THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED		
24		
PC		
V0		
-40 ... 120		
DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen		

Technical data		
THERMOMARK CARD PLUS • THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED		
24		
PC		
V0		
-40 ... 120		
DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen		

Ordering data		
Type	Order No.	Pcs. / Pkt.
UCT-EM (17,5X9)	0801491	10
UCT-EM (17,5X9) YE	0801492	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
UCT-EM (18X8)	0801488	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
UCT-EM (20X7)	0801494	10
UCT-EM (20X7) TQ	0801495	10

Accessories		
THERMOMARK CARD-UCT-MAG22	0830771	1
UCT-EM (17,5X9) CUS	0801575	1
UCT-EM (17,5X9) YE CUS	0801576	1

Accessories		
UCT-EM (18X8) CUS	0801573	1
THERMOMARK CARD-UCT-MAG17	0830404	1

Accessories		
THERMOMARK CARD-UCT-MAG8	0801735	1
THERMOMARK CARD-UCT-MAG17	0801580	1
THERMOMARK CARD-UCT-MAG22	0801581	1

Marking and labeling - MARKING system

Device marking

UniCard snap-in device marking for devices from other manufacturers



The UCT-EM ... UniCard labeling range includes markers for devices and switchgear from a wide range of manufacturers.

- The markers, which are supplied in uniform sheets, can be labeled quickly and easily using the BLUEMARK CLED and THERMOMARK CARD products
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space for including function texts
- An overview of the devices that support labeling plus their manufacturers can be found starting on page 304
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

1) For ordering example, see page 359.

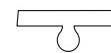
Can be printed with:



Thermal transfer for sheets and cards



UV LED technology



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FOR YOU



Technical data

General data

Can be printed with:

Number of individual labels

THERMOMARK CARD PLUS • THERMOMARK CARD •
BLUEMARK CLED • BLUEMARK LED

Material

24

Inflammability class according to UL 94

PC

Temperature range

V0

Wipe resistance

-40 ... 120

Components

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

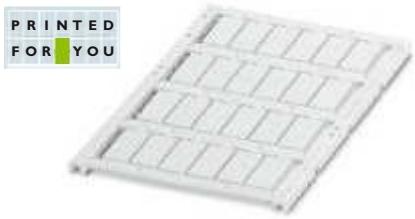
[°C]

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard , for labeling devices from the following manufacturers: Escha, Murr Elektronik, Turck		UCT-EM (20X8)	0801477	10
Lettering field size: 20 x 8 mm	white			
UniCard , for labeling devices from the following manufacturers: ABB, Conta Clip, Escha, Festo, ifm-electronic, Lumberg, Moeller, Murr Elektronik, Pepperl & Fuchs, Phoenix Contact, Siemens, Turck, Weidmüller				
Lettering field size: 20 x 9 mm	white			
Lettering field size: 20 x 9 mm	turquoise			
Lettering field size: 20 x 9 mm	yellow			
UniCard , for marking devices from the following manufacturers: ABB, Schneider Electric, ifm-electronic, Murr Elektronik				
Lettering field size: 21 x 8 mm	white			
UniCard , for labeling devices from the following manufacturers: see previous products, labeled according to customer specifications¹⁾				
Lettering field size: 20 x 8 mm	white			
Lettering field size: 20 x 9 mm	white			
Lettering field size: 20 x 9 mm	turquoise			
Lettering field size: 20 x 9 mm	yellow			
Lettering field size: 21 x 8 mm	white			

Accessories

Magazine , for THERMOMARK CARD ... for accommodating UCT-EM (17X10) and (20X8)	THERMOMARK CARD-UCT-MAG11	0801738	1
for accommodating UCT-EM (20 x 9)			
Magazine , for THERMOMARK CARD ... for accommodating UCT-EM (21X8) and UCT EM (17X8)			



Technical data

THERMOMARK CARD PLUS • THERMOMARK CARD •

BLUEMARK CLED • BLUEMARK LED

24

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Technical data

THERMOMARK CARD PLUS • THERMOMARK CARD •

BLUEMARK CLED • BLUEMARK LED

18

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
UCT-EM (20X9)	0801471	10
UCT-EM (20X9) TQ	0801473	10
UCT-EM (20X9) YE	0801472	10

Ordering data

Type	Order No.	Pcs. / Pkt.
UCT-EM (21X8)	0801489	10

UCT-EM (20X9)
UCT-EM (20X9) TQ
UCT-EM (20X9) YE

0801471
0801473
0801472

10
10
10

UCT-EM (20X9) CUS
UCT-EM (20X9) TQ CUS
UCT-EM (20X9) YE CUS

0801556
0801558
0801557

1
1
1

UCT-EM (21X8)

0801489

10

UCT-EM (21X8) CUS

0801574

1

Accessories

THERMOMARK CARD-UCT-MAG15	0830402	1
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Accessories

THERMOMARK CARD-UCT-MAG14	0830401	1
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Marking and labeling - MARKING system

Device marking

UniSheet stick-on device marking

Can be printed with:



Thermal transfer for sheets
and cards



Unlabeled

- The US-EMLP ... UniSheet labeling range includes self-adhesive device markers with good adhesive properties in different sizes for:
 - Device marking
 - Module marking
 - Switchgear marking
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The perforated markers are easy to separate and can be easily fitted
- The sheets provide space for including function texts
- For more label sizes, visit www.phoenixcontact.net/products

Marking of power circuit breakers, for example:

- 8.8 x 15 mm for ABB, Schneider Electric
- 17 x 15 mm for ABB, Hager, Legrand
- 35 x 15 mm for ABB, Legrand, Schneider Electric
- 52.5 x 15 mm for ABB, Legrand, Schneider Electric
- 70 x 15 mm for Legrand, Schneider Electric

General data

Can be printed with:

Material
Inflammability class according to UL 94
Temperature range
Wipe resistance
Components

THERMOMARK CARD PLUS • THERMOMARK CARD
PVC
V0
-30 ... 80
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Technical data

Description

Type

Order No.

Pcs. / Pkt.

UniSheet, with self-adhesive plastic labels, 0.5 mm thick

Description	Color	Type	Order No.	Pcs. / Pkt.
88-section, lettering field size: 8.8 x 15 mm	white yellow red silver	US-EMLP (8,8X15) US-EMLP (8,8X15) YE US-EMLP (8,8X15) RD US-EMLP (8,8X15) SR	0830303 0830316 0830318 0830317	10 10 10 10
135-section, lettering field size: 11 x 9 mm	white yellow silver	US-EMLP (11X9) US-EMLP (11X9) YE US-EMLP (11X9) SR	0828789 0828871 0828872	10 10 10
189-section, lettering field size: 15 x 5 mm	white yellow silver	US-EMLP (15X5) US-EMLP (15X5) YE US-EMLP (15X5) SR	0828790 0828873 0828874	10 10 10
108-section, lettering field size: 17 x 7 mm	white yellow silver	US-EMLP (17X7) US-EMLP (17X7) YE US-EMLP (17X7) SR	0828792 0828877 0828878	10 10 10
54-section, lettering field size: 17 x 15 mm	white yellow silver	US-EMLP (17X15) US-EMLP (17X15) YE US-EMLP (17X15) SR	0828793 0828879 0828880	10 10 10
75-section, lettering field size: 20 x 9 mm	white yellow silver	US-EMLP (20X9) US-EMLP (20X9) YE US-EMLP (20X9) SR	0828795 0828883 0828884	10 10 10
24-section, lettering field size: 22 x 22 mm	white yellow silver	US-EMLP (22X22) US-EMLP (22X22) YE US-EMLP (22X22) SR	0828796 0828885 0828886	10 10 10
51-section, lettering field size: 27 x 8 mm	white yellow silver	US-EMLP (27X8) US-EMLP (27X8) YE US-EMLP (27X8) SR	0828797 0828889 0828890	10 10 10
30-section, lettering field size: 27 x 12.5 mm	white yellow silver	US-EMLP (27X12,5) US-EMLP (27X12,5) YE US-EMLP (27X12,5) SR	0828798 0828891 0828892	10 10 10
27-section, lettering field size: 27 x 15 mm	white yellow silver	US-EMLP (27X15) US-EMLP (27X15) YE US-EMLP (27X15) SR	0828799 0828893 0828894	10 10 10

Accessories

Magazine, for THERMOMARK CARD..., for accommodating all US-... materials

THERMOMARK CARD-US-MAG1	5146451	1
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UniSheet stick-on device marking



Unlabeled

Technical data

General data

Can be printed with:

Material

Inflammability class according to UL 94

Temperature range [°C]

Wipe resistance

Components

THERMOMARK CARD PLUS • THERMOMARK CARD

PVC

V0

-30 ... 80

DIN EN 61010-1 (VDE 0411-1)

Silicone-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniSheet , with self-adhesive plastic labels, 0.5 mm thick				
21-section, lettering field size: 27 x 18 mm	white	US-EMLP (27X18)	0828800	10
	yellow	US-EMLP (27X18) YE	0828895	10
	silver	US-EMLP (27X18) SR	0828896	10
15-section, lettering field size: 27 x 27 mm	white	US-EMLP (27X27)	0828801	10
	yellow	US-EMLP (27X27) YE	0828897	10
	silver	US-EMLP (27X27) SR	0828898	10
45-section, lettering field size: 35 x 9 mm	white	US-EMLP (35X9)	0828802	10
	yellow	US-EMLP (35X9) YE	0828899	10
	silver	US-EMLP (35X9) SR	0829430	10
27-section, lettering field size: 35 x 15 mm	white	US-EMLP (35X15)	0830300	10
	yellow	US-EMLP (35X15) YE	0830319	10
	red	US-EMLP (35X15) RD	0830321	10
	silver	US-EMLP (35X15) SR	0830320	10
28-section, lettering field size: 40 x 10 mm	white	US-EMLP (40X10)	0830341	10
	yellow	US-EMLP (40X10) YE	0830342	10
	silver	US-EMLP (40X10) SR	0830328	10
18-section, lettering field size: 49 x 15 mm	white	US-EMLP (49X15)	0828803	10
	yellow	US-EMLP (49X15) YE	0828901	10
	silver	US-EMLP (49X15) SR	0828902	10
16-section, lettering field size: 52.5 x 15 mm	white	US-EMLP (52,5X15)	0830301	10
	yellow	US-EMLP (52,5X15) YE	0830322	10
	red	US-EMLP (52,5X15) RD	0830324	10
	silver	US-EMLP (52,5X15) SR	0830323	10
9-section, lettering field size: 60 x 15 mm	white	US-EMLP (60X15)	0828804	10
	yellow	US-EMLP (60X15) YE	0828903	10
	silver	US-EMLP (60X15) SR	0828904	10
4-section, lettering field size: 60 x 30 mm	white	US-EMLP (60X30)	0828805	10
	yellow	US-EMLP (60X30) YE	0828905	10
	silver	US-EMLP (60X30) SR	0828906	10
8-section, lettering field size: 70 x 15 mm	white	US-EMLP (70X15)	0830302	10
	yellow	US-EMLP (70X15) YE	0830325	10
	red	US-EMLP (70X15) RD	0830327	10
	silver	US-EMLP (70X15) SR	0830326	10
2-section, lettering field size: 85.6 x 54 mm	white	US-EMLP (85,6X54)	0828806	10
	yellow	US-EMLP (85,6X54) YE	0828907	10
	silver	US-EMLP (85,6X54) SR	0828908	10
2-section, lettering field size: 100 x 60 mm	white	US-EMLP (100X60)	0828807	10
	yellow	US-EMLP (100X60) YE	0828909	10
	silver	US-EMLP (100X60) SR	0828910	10
1-section, lettering field size: 104 x 135 mm	white	US-EMLP (104X135)	0830304	10
	yellow	US-EMLP (104X135) YE	0830305	10
	silver	US-EMLP (104X135) SR	0830306	10

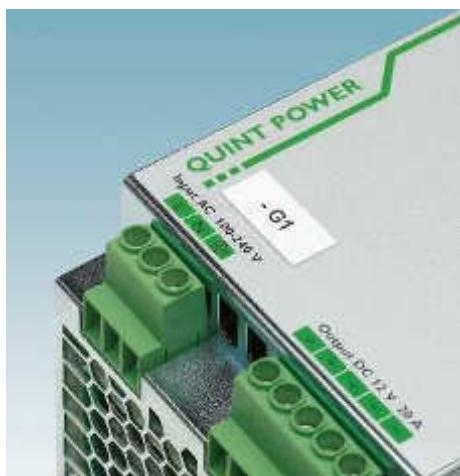
Accessories

Magazine, for THERMOMARK CARD..., for accommodating all US-... materials

THERMOMARK CARD-US-MAG1	5146451	1
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Device marking

UniSheet stick-on device marking



PRINTED
FOR YOU



Labeled according to customer specifications

- The US-EMLP ... UniSheet labeling range includes self-adhesive device markers with good adhesive properties in different sizes for:
- Device marking
- Module marking
- Switchgear marking
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The perforated markers are easy to separate and can be easily fitted
- The sheets provide space for including function texts
- For more label sizes, visit www.phoenixcontact.net/products

Marking of power circuit breakers, for example:

- 8.8 x 15 mm for ABB, Schneider Electric
- 17 x 15 mm for ABB, Hager, Legrand
- 35 x 15 mm for ABB, Legrand, Schneider Electric
- 52.5 x 15 mm for ABB, Legrand, Schneider Electric
- 70 x 15 mm for Legrand, Schneider Electric

Notes:

¹⁾ For ordering example, see page 359.

Technical data				
Ordering data				
Description	Color	Type	Order No.	Pcs. / Pkt.
UniSheet, with self-adhesive plastic labels, 0.5 mm thick, labeled acc. to customer specifications ¹⁾ 88-section, lettering field size: 8.8 x 15 mm	white yellow red silver	US-EMLP (8,8X15) CUS US-EMLP (8,8X15) YE CUS US-EMLP (8,8X15) RD CUS US-EMLP (8,8X15) SR CUS	0830371 0830372 0830374 0830373	1 1 1 1
135-section, lettering field size: 11 x 9 mm	white yellow silver	US-EMLP (11X9) CUS US-EMLP (11X9) YE CUS US-EMLP (11X9) SR CUS	0830073 0830074 0830075	1 1 1
189-section, lettering field size: 15 x 5 mm	white yellow silver	US-EMLP (15X5) CUS US-EMLP (15X5) YE CUS US-EMLP (15X5) SR CUS	0830076 0830077 0830078	1 1 1
108-section, lettering field size: 17 x 7 mm	white yellow silver	US-EMLP (17X7) CUS US-EMLP (17X7) YE CUS US-EMLP (17X7) SR CUS	0830079 0830080 0830081	1 1 1
54-section, lettering field size: 17 x 15 mm	white yellow silver	US-EMLP (17X15) CUS US-EMLP (17X15) YE CUS US-EMLP (17X15) SR CUS	0830082 0830083 0830084	1 1 1
75-section, lettering field size: 20 x 9 mm	white yellow silver	US-EMLP (20X9) CUS US-EMLP (20X9) YE CUS US-EMLP (20X9) SR CUS	0830085 0830086 0830087	1 1 1
24-section, lettering field size: 22 x 22 mm	white yellow silver	US-EMLP (22X22) CUS US-EMLP (22X22) YE CUS US-EMLP (22X22) SR CUS	0830088 0830089 0830090	1 1 1
51-section, lettering field size: 27 x 8 mm	white yellow silver	US-EMLP (27X8) CUS US-EMLP (27X8) YE CUS US-EMLP (27X8) SR CUS	0830091 0830092 0830093	1 1 1
30-section, lettering field size: 27 x 12.5 mm	white yellow silver	US-EMLP (27X12,5) CUS US-EMLP (27X12,5) YE CUS US-EMLP (27X12,5) SR CUS	0830094 0830095 0830096	1 1 1
27-section, lettering field size: 27 x 15 mm	white yellow silver	US-EMLP (27X15) CUS US-EMLP (27X15) YE CUS US-EMLP (27X15) SR CUS	0830097 0830098 0830099	1 1 1
21-section, lettering field size: 27 x 18 mm	white yellow silver	US-EMLP (27X18) CUS US-EMLP (27X18) YE CUS US-EMLP (27X18) SR CUS	0830100 0830101 0830102	1 1 1
15-section, lettering field size: 27 x 27 mm	white yellow silver	US-EMLP (27X27) CUS US-EMLP (27X27) YE CUS US-EMLP (27X27) SR CUS	0830103 0830104 0830105	1 1 1

UniSheet stick-on device marking**Notes:**

1) For ordering example, see page 359.

**Labeled according to customer specifications**

Technical data			
Ordering data			
Description	Color	Type	Order No.
UniSheet , with self-adhesive plastic labels, 0.5 mm thick, labeled acc. to customer specifications¹⁾			
45-section, lettering field size: 35 x 9 mm	white	US-EMLP (35X9) CUS	0830106
	yellow	US-EMLP (35X9) YE CUS	0830107
	silver	US-EMLP (35X9) SR CUS	0830108
27-section, lettering field size: 35 x 15 mm	white	US-EMLP (35X15) CUS	0830375
	yellow	US-EMLP (35X15) YE CUS	0830376
	red	US-EMLP (35X15) RD CUS	0830378
	silver	US-EMLP (35X15) SR CUS	0830377
28-section, lettering field size: 40 x 10 mm	white	US-EMLP (40X10) CUS	0830365
	yellow	US-EMLP (40X10) YE CUS	0830366
	silver	US-EMLP (40X10) SR CUS	0830367
18-section, lettering field size: 49 x 15 mm	white	US-EMLP (49X15) CUS	0830109
	yellow	US-EMLP (49X15) YE CUS	0830110
	silver	US-EMLP (49X15) SR CUS	0830111
16-section, lettering field size: 52.5 x 15 mm	white	US-EMLP (52,5X15) CUS	0830379
	yellow	US-EMLP (52,5X15) YE CUS	0830380
	red	US-EMLP (52,5X15) RD CUS	0830382
	silver	US-EMLP (52,5X15) SR CUS	0830381
9-section, lettering field size: 60 x 15 mm	white	US-EMLP (60X15) CUS	0830112
	yellow	US-EMLP (60X15) YE CUS	0830113
	silver	US-EMLP (60X15) SR CUS	0830114
4-section, lettering field size: 60 x 30 mm	white	US-EMLP (60X30) CUS	0830115
	yellow	US-EMLP (60X30) YE CUS	0830116
	silver	US-EMLP (60X30) SR CUS	0830117
8-section, lettering field size: 70 x 15 mm	white	US-EMLP (70X15) CUS	0830383
	yellow	US-EMLP (70X15) YE CUS	0830384
	red	US-EMLP (70X15) RD CUS	0830386
	silver	US-EMLP (70X15) SR CUS	0830385
2-section, lettering field size: 85.6 x 54 mm	white	US-EMLP (85,6X54) CUS	0830118
	yellow	US-EMLP (85,6X54) YE CUS	0830119
	silver	US-EMLP (85,6X54) SR CUS	0830120
2-section, lettering field size: 100 x 60 mm	white	US-EMLP (100X60) CUS	0830121
	yellow	US-EMLP (100X60) YE CUS	0830122
	silver	US-EMLP (100X60) SR CUS	0830123
1-section, lettering field size: 104 x 135 mm	white	US-EMLP (104X135) CUS	0830387
	yellow	US-EMLP (104X135) YE CUS	0830388
	silver	US-EMLP (104X135) SR CUS	0830389

Marking and labeling - MARKING system

Device marking

UniSheet device marking that can be snapped into marker carriers

Can be printed with:



Thermal transfer for sheets
and cards



Unlabeled

- The US-EMP ... UniSheet labeling range includes markers that can be fitted into existing CARRIER EMP ... label frames
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The perforated markers are easy to separate and can be easily fitted
- The sheets provide space for including function texts

Notes:

For matching label frames, see page 296.

1) For ordering example, see page 359.

General data

Can be printed with:

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

THERMOMARK CARD PLUS • THERMOMARK CARD

PVC

V0

-30 ... 80

DIN EN 61010-1 (VDE 0411-1)

Silicone-free

Technical data

Description

Type

Order No.

Pcs. / Pkt.

UniSheet, just 0.5 mm thick ¹⁾ 54-section, lettering field size: 17 x 15 mm	white yellow silver	US-EMP (17X15) US-EMP (17X15) YE US-EMP (17X15) SR	0828774 0828842 0828843	10
70-section, lettering field size: 20 x 9 mm	white	US-EMP (20X9)	0829439	10
84-section, lettering field size: 25 x 6 mm	white	US-EMP (25X6)-1	0802754	10
84-section, lettering field size: 26 x 6 mm	white	US-EMP (25X6)	0829435	10
51-section, lettering field size: 27 x 8 mm	white yellow silver	US-EMP (27X8) US-EMP (27X8) YE US-EMP (27X8) SR	0828775 0828844 0828845	10
30-section, lettering field size: 27 x 12.5 mm	white	US-EMP (27X12,5)	0828776	10
	yellow silver	US-EMP (27X12,5) YE US-EMP (27X12,5) SR	0828846 0828847	10
27-section, lettering field size: 27 x 15 mm	white yellow silver	US-EMP (27X15) US-EMP (27X15) YE US-EMP (27X15) SR	0828777 0828848 0828849	10
21-section, lettering field size: 27 x 18 mm	white yellow silver	US-EMP (27X18) US-EMP (27X18) YE US-EMP (27X18) SR	0828778 0828850 0828851	10
15-section, lettering field size: 27 x 27 mm	white yellow silver	US-EMP (27X27) US-EMP (27X27) YE US-EMP (27X27) SR	0828779 0828852 0828853	10
48-section, lettering field size: 29 x 8 mm	white yellow	US-EMP (29X8) US-EMP (29X8) YE	0829436 0829440	10
16-section, lettering field size: 40 x 17 mm	white	US-EMP (40X17)	0829437	10
36-section, lettering field size: 44 x 7 mm	white	US-EMP (44X7)	0829438	10
18-section, lettering field size: 49 x 15 mm	white yellow silver	US-EMP (49X15) US-EMP (49X15) YE US-EMP (49X15) SR	0828780 0828854 0828855	10
9-section, lettering field size: 60 x 15 mm	white yellow silver	US-EMP (60X15) US-EMP (60X15) YE US-EMP (60X15) SR	0828781 0828856 0828857	10
4-section, lettering field size: 60 x 30 mm	white yellow silver	US-EMP (60X30) US-EMP (60X30) YE US-EMP (60X30) SR	0828782 0828858 0828859	10
2-section, lettering field size: 85.6 x 54 mm	white yellow silver	US-EMP (85,6X54) US-EMP (85,6X54) YE US-EMP (85,6X54) SR	0828783 0828860 0828861	10
9-section, lettering field size: 100 x 15 mm	white yellow silver	US-EMP (100X15) US-EMP (100X15) YE US-EMP (100X15) SR	0829521 0829522 0829523	10

Accessories

Magazine, for THERMOMARK CARD..., for accommodating all
US-... materials

THERMOMARK CARD-US-MAG1	5146451	1
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UniSheet device marking that can be snapped into marker carriers

- All US-EMP ... device markers can also be supplied labeled according to customer requirements

Notes:

For matching label frames, see page 296.



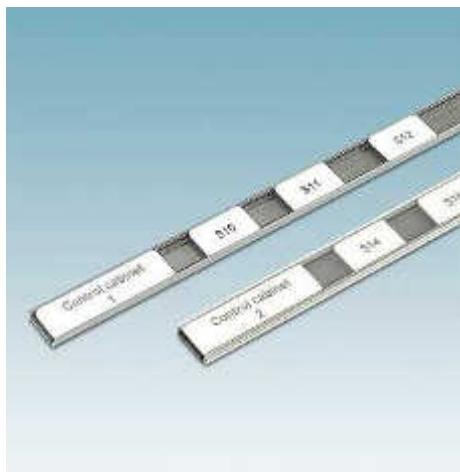
Labeled according to customer specifications

Technical data				
Ordering data				
Description	Color	Type	Order No.	Pcs. / Pkt.
General data				
Material		PVC		
Inflammability class according to UL 94		V0		
Temperature range	[°C]	-30 ... 80		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Silicone-free		
UniSheet, with self-adhesive plastic labels, 0.5 mm thick, labeled acc. to customer specifications				
54-section, lettering field size: 17 x 15 mm	white	US-EMP (17X15) CUS	0830025	1
	yellow	US-EMP (17X15) YE CUS	0830026	1
	silver	US-EMP (17X15) SR CUS	0830027	1
70-section, lettering field size: 20 x 9 mm	white	US-EMP (20X9) CUS	0830028	1
84-section, lettering field size: 25 x 6 mm	white	US-EMP (25X6)-1 CUS	0802755	1
84-section, lettering field size: 26 x 6 mm	white	US-EMP (25X6) CUS	0830029	1
51-section, lettering field size: 27 x 8 mm	white	US-EMP (27X8) CUS	0830030	1
	yellow	US-EMP (27X8) YE CUS	0830031	1
	silver	US-EMP (27X8) SR CUS	0830032	1
30-section, lettering field size: 27 x 12.5 mm	white	US-EMP (27X12,5) CUS	0830033	1
	yellow	US-EMP (27X12,5) YE CUS	0830034	1
	silver	US-EMP (27X12,5) SR CUS	0830035	1
27-section, lettering field size: 27 x 15 mm	white	US-EMP (27X15) CUS	0830036	1
	yellow	US-EMP (27X15) YE CUS	0830037	1
	silver	US-EMP (27X15) SR CUS	0830038	1
21-section, lettering field size: 27 x 18 mm	white	US-EMP (27X18) CUS	0830039	1
	yellow	US-EMP (27X18) YE CUS	0830040	1
	silver	US-EMP (27X18) SR CUS	0830041	1
15-section, lettering field size: 27 x 27 mm	white	US-EMP (27X27) CUS	0830042	1
	yellow	US-EMP (27X27) YE CUS	0830043	1
	silver	US-EMP (27X27) SR CUS	0830044	1
48-section, lettering field size: 29 x 8 mm	white	US-EMP (29X8) CUS	0830045	1
	yellow	US-EMP (29X8) YE CUS	0830046	1
16-section, lettering field size: 40 x 17 mm	white	US-EMP (40X17) CUS	0830047	1
36-section, lettering field size: 44 x 7 mm	white	US-EMP (44X7) CUS	0830048	1
18-section, lettering field size: 49 x 15 mm	white	US-EMP (49X15) CUS	0830049	1
	yellow	US-EMP (49X15) YE CUS	0830050	1
	silver	US-EMP (49X15) SR CUS	0830051	1
9-section, lettering field size: 60 x 15 mm	white	US-EMP (60X15) CUS	0830052	1
	yellow	US-EMP (60X15) YE CUS	0830053	1
	silver	US-EMP (60X15) SR CUS	0830054	1
4-section, lettering field size: 60 x 30 mm	white	US-EMP (60X30) CUS	0830055	1
	yellow	US-EMP (60X30) YE CUS	0830056	1
	silver	US-EMP (60X30) SR CUS	0830057	1
2-section, lettering field size: 85.6 x 54 mm	white	US-EMP (85,6X54) CUS	0830058	1
	yellow	US-EMP (85,6X54) YE CUS	0830059	1
	silver	US-EMP (85,6X54) SR CUS	0830060	1
9-section, lettering field size: 100 x 15 mm	white	US-EMP (100X15) CUS	0830061	1
	yellow	US-EMP (100X15) YE CUS	0830062	1
	silver	US-EMP (100X15) SR CUS	0830063	1

Marking and labeling - MARKING system

Device marking

UniSheet device marking that can be snapped into marker carriers



Can be printed with:



Thermal transfer for sheets
and cards



Unlabeled

The US-EMP ... UniSheet device markers can be easily and individually snapped into the CARRIER(/L)-EMP (1000X15)... marker profile. They offer the following advantages and are suitable for the following:

- Device marking
- Module marking
- Switchgear marking
- The labels are available in different sizes corresponding to common device pitch measurements
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The perforated markers are easy to separate and can be easily fitted
- The sheets provide space for including function texts

Marking of power circuit breakers, for example:

- 8.8 x 15 mm for ABB, Schneider Electric
- 17 x 15 mm for ABB, Hager, Legrand
- 35 x 15 mm for ABB, Legrand, Schneider Electric
- 52.5 x 15 mm for ABB, Legrand, Schneider Electric
- 70 x 15 mm for Legrand, Schneider Electric

General data

Can be printed with:

Material
Inflammability class according to UL 94
Temperature range
Wipe resistance
Components

THERMOMARK CARD PLUS • THERMOMARK CARD
PVC
V0
-30 ... 80
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Description

Type

Order No.

Pcs. / Pkt.

UniSheet, 0.5 mm thick, can be labeled with THERMOMARK CARD 88-section, lettering field size: 8.8 x 15 mm	white yellow red silver	US-EMP (8,8X15) US-EMP (8,8X15) YE US-EMP (8,8X15) RD US-EMP (8,8X15) SR	0830293 0830426 0830428 0830427	10 10 10 10
54-section, lettering field size: 17 x 15 mm	white yellow silver	US-EMP (17X15) US-EMP (17X15) YE US-EMP (17X15) SR	0828774 0828842 0828843	10 10 10
27-section, lettering field size: 27 x 15 mm	white yellow silver	US-EMP (27X15) US-EMP (27X15) YE US-EMP (27X15) SR	0828777 0828848 0828849	10 10 10
24-section, lettering field size: 35 x 15 mm	white yellow red silver	US-EMP (35X15) US-EMP (35X15) YE US-EMP (35X15) RD US-EMP (35X15) SR	0830295 0830307 0830309 0830308	10 10 10 10
18-section, lettering field size: 49 x 15 mm	white yellow silver	US-EMP (49X15) US-EMP (49X15) YE US-EMP (49X15) SR	0828780 0828854 0828855	10 10 10
16-section, lettering field size: 52.5 x 15 mm	white yellow red silver	US-EMP (52,5X15) US-EMP (52,5X15) YE US-EMP (52,5X15) RD US-EMP (52,5X15) SR	0830296 0830310 0830312 0830311	10 10 10 10
9-section, lettering field size: 60 x 15 mm	white yellow silver	US-EMP (60X15) US-EMP (60X15) YE US-EMP (60X15) SR	0828781 0828856 0828857	10 10 10
8-section, lettering field size: 70 x 15 mm	white yellow red silver	US-EMP (70X15) US-EMP (70X15) YE US-EMP (70X15) RD US-EMP (70X15) SR	0830297 0830313 0830315 0830314	10 10 10 10
9-section, lettering field size: 100 x 15 mm	white yellow silver	US-EMP (100X15) US-EMP (100X15) YE US-EMP (100X15) SR	0829521 0829522 0829523	10 10 10

Accessories

Profile, for screwing or riveting, 1000 mm long, for accommodating UC-.../US-... and EMT ... material with a height of 15 mm	gray transparent	CARRIER-EMP (1000X15) GY CARRIER-EMP (1000X15) TR	0829366 0829530	25 25
Profile, self-adhesive, 1000 mm long, for accommodating UC-.../US-... and EMT ... material with a height of 15 mm	gray transparent	CARRIER/L-EMP (1000X15) GY CARRIER/L-EMP (1000X15) TR	0829559 0829560	25 25
CARRIER cover, 1000 mm long	transparent	CARRIER-EMP (1000X15) COVER	0829520	25
Magazine, for THERMOMARK CARD..., for accommodating all US-... materials		THERMOMARK CARD-US-MAG1	5146451	1

UniSheet device marking that can be snapped into marker carriers

- All US-EMP ... device markers can also be supplied labeled according to customer requirements

Notes:

¹⁾ For ordering example, see page 359.



Labeled according to customer specifications



Unlabeled or labeled according to customer specifications

General data

Can be printed with:

Material

PVC

Inflammability class according to UL 94

V0

Temperature range

-30 ... 80

Wipe resistance

DIN EN 61010-1 (VDE 0411-1)

Components

Silicone-free

Technical data

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMO-MARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1

Polyester

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Ordering data

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UniSheet, with self-adhesive plastic labels, 0.5 mm thick, labeled acc. to customer specifications ¹⁾							
88-section, lettering field size: 8.8 x 15 mm	white	US-EMP (8,8X15) CUS	0830349	1			
	yellow	US-EMP (8,8X15) YE CUS	0830350	1			
	red	US-EMP (8,8X15) RD CUS	0830352	1			
	silver	US-EMP (8,8X15) SR CUS	0830351	1			
54-section, lettering field size: 17 x 15 mm	white	US-EMP (17X15) CUS	0830025	1			
	yellow	US-EMP (17X15) YE CUS	0830026	1			
	silver	US-EMP (17X15) SR CUS	0830027	1			
27-section, lettering field size: 27 x 15 mm	white	US-EMP (27X15) CUS	0830036	1			
	yellow	US-EMP (27X15) YE CUS	0830037	1			
	silver	US-EMP (27X15) SR CUS	0830038	1			
24-section, lettering field size: 35 x 15 mm	white	US-EMP (35X15) CUS	0830353	1			
	yellow	US-EMP (35X15) YE CUS	0830354	1			
	red	US-EMP (35X15) RD CUS	0830356	1			
	silver	US-EMP (35X15) SR CUS	0830355	1			
18-section, lettering field size: 49 x 15 mm	white	US-EMP (49X15) CUS	0830049	1			
	yellow	US-EMP (49X15) YE CUS	0830050	1			
	silver	US-EMP (49X15) SR CUS	0830051	1			
16-section, lettering field size: 52.5 x 15 mm	white	US-EMP (52,5X15) CUS	0830357	1			
	yellow	US-EMP (52,5X15) YE CUS	0830358	1			
	red	US-EMP (52,5X15) RD CUS	0830360	1			
	silver	US-EMP (52,5X15) SR CUS	0830359	1			
9-section, lettering field size: 60 x 15 mm	white	US-EMP (60X15) CUS	0830052	1			
	yellow	US-EMP (60X15) YE CUS	0830053	1			
	silver	US-EMP (60X15) SR CUS	0830054	1			
8-section, lettering field size: 70 x 15 mm	white	US-EMP (70X15) CUS	0830361	1			
	yellow	US-EMP (70X15) YE CUS	0830362	1			
	red	US-EMP (70X15) RD CUS	0830364	1			
	silver	US-EMP (70X15) SR CUS	0830363	1			
9-section, lettering field size: 100 x 15 mm	white	US-EMP (100X15) CUS	0830061	1			
	yellow	US-EMP (100X15) YE CUS	0830062	1			
	silver	US-EMP (100X15) SR CUS	0830063	1			
Insert strips, unprinted, 1 roll = 50 m, continuous, strip height: 15 mm	white				EMT (EX15)R	0830671	1
Insert strips, unprinted, 1 roll = 50 m, continuous, strip height: 15 mm, marked according to customer specifications	white				EMT (EX15)R CUS	0830395	1

Marking and labeling - MARKING system

Device marking

**UniSheet device marking
for screwing or riveting**



Can be printed with:



Thermal transfer for sheets
and cards



Unlabeled or labeled according to customer
specifications

- The US-EMSP ... UniSheet labeling range includes markers that can be attached using screws or rivets
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The perforated markers are easy to separate and can be easily fitted
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniSheet markers in accordance with your requirements

Notes:

For corresponding rivets for fixing the US-EMSP, see page 370.

1) For ordering example, see page 359.

General data

Can be printed with:

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

THERMOMARK CARD PLUS • THERMOMARK CARD

PVC

V0

-30 ... 80

DIN EN 61010-1 (VDE 0411-1)

Silicone-free

Technical data

Description

Color

Type

Order No.

Pcs. / Pkt.

UniSheet, 0.5 mm thick, with mounting holes 3.2 mm in diameter

4-section, lettering field size: 50 x 30 mm

white

US-EMSP (50X30)

0828786

10

yellow

US-EMSP (50X30) YE

0828927

10

silver

US-EMSP (50X30) SR

0828928

10

2-section, lettering field size: 75.6 x 54 mm

white

US-EMSP (75,6X54)

0828787

10

yellow

US-EMSP (75,6X54) YE

0828929

10

silver

US-EMSP (75,6X54) SR

0828930

10

2-section, lettering field size: 90 x 60 mm

white

US-EMSP (90X60)

0828788

10

yellow

US-EMSP (90X60) YE

0828931

10

silver

US-EMSP (90X60) SR

0828932

10

4-section, lettering field size: 50 x 30 mm¹⁾

yellow

US-EMSP (50X30) YE CUS

0830065

1

yellow

US-EMSP (50X30) SR CUS

0830066

1

2-section, lettering field size: 75.6 x 54 mm

white

US-EMSP (75,6X54) CUS

0830067

1

yellow

US-EMSP (75,6X54) YE CUS

0830068

1

silver

US-EMSP (75,6X54) SR CUS

0830069

1

2-section, lettering field size: 90 x 60 mm

white

US-EMSP (90X60) CUS

0830070

1

yellow

US-EMSP (90X60) YE CUS

0830071

1

silver

US-EMSP (90X60) SR CUS

0830072

1

Accessories

Magazine, for THERMOMARK CARD..., for accommodating all
US-... materials

THERMOMARK CARD-US-MAG1

5146451

1

UniSheet device marking for sticking on and additional screwing or riveting



Can be printed with:



Thermal transfer for sheets and cards



Unlabeled or labeled according to customer specifications

- The US-EMLSP ... UniSheet labeling range includes adhesive markers which can also be attached with screws or rivets
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The perforated markers are easy to separate and can be easily fitted
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniSheet markers in accordance with your requirements

Notes:

For corresponding rivets for fixing the UC-EMLSP ..., see page 370.

For drilling diagrams, visit www.phoenixcontact.net/products.

¹⁾ For ordering example, see page 359.

General data

Can be printed with:

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

THERMOMARK CARD PLUS • THERMOMARK CARD

PVC

V0

-30 ... 80

DIN EN 61010-1 (VDE 0411-1)

Silicone-free

Technical data

Description

Color

UniSheet, with self-adhesive plastic labels, mounting holes with 3.2 mm diameter, 0.5 mm thick

Lettering field size: 28 x 10 mm

white

yellow

silver

white

Type

Order No.

Pcs. / Pkt.

US-EMLSP (28X10)

0830343

10

US-EMLSP (28X10) YE

0830344

10

US-EMLSP (28X10) SR

0830329

10

US-EMLSP (28X10) CUS

0830368

1

US-EMLSP (28X10) YE CUS

0830369

1

US-EMLSP (28X10) SR CUS

0830370

1

Accessories

Magazine, for THERMOMARK CARD..., for accommodating all US-... materials

THERMOMARK CARD-US-MAG1

5146451

1

Marking and labeling - MARKING system

Device marking

**UniSheet device marking,
stick-on labels**

Can be printed with:



Thermal transfer for sheets
and cards



- The US-EML ... UniSheet labeling ranges include markers for marking equipment in switchgear and systems manufacturing
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The perforated markers and labels are easy to separate and can be easily fitted
- When used in conjunction with high-quality ink ribbons, they result in a highly resistant form of labeling that is suitable for harsh environments
- The sheets provide space for including function texts
- The US-EML ... material is UL-listed

Technical data

General data

Can be printed with:

Material
Temperature range
Wipe resistance
Components

[°C]

THERMOMARK CARD PLUS • THERMOMARK CARD
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniSheet, with self-adhesive labels 80-section, lettering field size: 17.5 x 8 mm	white yellow	US-EML (17,5X8) US-EML (17,5X8) YE	0800461 0800463	10 10
64-section, lettering field size: 20 x 8 mm	white yellow	US-EML (20X8) US-EML (20X8) YE	0800458 0800460	10 10
34-section, lettering field size: 104 x 3.8 mm	white	US-EML (104X3,8)	0800464	10
1-section, lettering field size: 104 x 140 mm	white yellow silver	US-EML (104X140) US-EML (104X140) YE US-EML (104X140) SR	0800465 0800467 0800466	10 10 10

Accessories

Magazine, for THERMOMARK CARD...,
for accommodating all US-... materials

THERMOMARK CARD-US-MAG1 5146451 1

**UniSheet - stick-on combi labels,
unprinted**

Can be printed with:

Thermal transfer for sheets
and cards**Unlabeled or labeled according to customer
specifications**

The unlabeled US-EMLF ... combi labels on US ... cards allow you to create custom information signs. A variety of symbols which conform to ISO 7010 are available in the CLIP PROJECT software. The markers offer the following features:

- High adhesive strength
- Suitable for indoor and outdoor use
- The markers conform to the ISO 7010 international standard
- The markers can be printed in various colors with the THERMOMARK CARD PLUS
- When used in conjunction with high-quality ink ribbons, a resistant form of labeling is produced, which is even suitable for harsh environments
- The markers, which are supplied in uniform sheets, can be labeled quickly, easily, and cost-effectively using the THERMOMARK CARD PLUS
- The format automatically ensures printing with a high level of positional accuracy
- The perforated markers are easy to separate

Notes:

1) For ordering example, see page 359.

General data

Can be printed with:

Material	PVC
Temperature range	[°C]
Wipe resistance	-40 ... 90
Components	DIN EN 61010-1 (VDE 0411-1)

THERMOMARK CARD PLUS • THERMOMARK CARD
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniSheet, with self-adhesive labels, 2-section, lettering field size: 104 x 70 mm	white yellow blue	US-EMLF (104X70) US-EMLF (104X70) YE US-EMLF (104X70) BU	1014294 1014295 1014296	10 10 10
UniSheet, with self-adhesive labels, 1-section, lettering field size: 104 x 140 mm	white yellow blue	US-EMLF (104X140) US-EMLF (104X140) YE US-EMLF (104X140) BU	1014291 1014292 1014293	10 10 10

UniSheet, with self-adhesive labels, labeled according to customer specifications, 2-section, lettering field size: 104 x 70 mm¹⁾

white yellow blue	US-EMLF (104X70) CUS US-EMLF (104X70) YE CUS US-EMLF (104X70) BU CUS	1014300 1014301 1014302	1 1 1
white yellow blue	US-EMLF (104X140) CUS US-EMLF (104X140) YE CUS US-EMLF (104X140) BU CUS	1014297 1014298 1014299	1 1 1

UniSheet, with self-adhesive labels, labeled according to customer specifications, 1-section, lettering field size: 104 x 140 mm¹⁾

Notes:			
1) For ordering example, see page 359.			
Segmented ink ribbon, length: 60 m, width: 110 mm two segments in colors			
three segments in colors	black/red black/red/ yellow	TM-RIBBON 110-TC BK/RD TM-RIBBON 110-TC BK/RD/YE	1014403 1014404
four segments in colors	black/red/blue/ yellow	TM-RIBBON 110-TC BK/RD/BU/YE	1014405



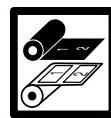
Marking and labeling - MARKING system

Device marking

Stick-on device marking



Can be printed with:



Thermal transfer for rolls



Unlabeled, white

- EML ... self-adhesive device markers have been specially developed to allow the marking of various types of operating equipment in control, system, and control cabinet engineering applications
- Precise printing quality and good adhesive properties
- If high-quality ink ribbons are used, the labeling is resistant to solvents, making it suitable for use even under harsh industrial conditions
- A wide range of marker sizes and colors is available for custom designs
- The special packaging protects rolls that have already been started from the dirt found in industrial environments
- The EML ... materials are UL-listed
- **Designation example:**
EML (10X4)R...

Lettering field size: 10 x 4 mm

Type of packaging: roll

Notes:

The THERMOMARK ROLL-ERH external media hub is required for RL rolls, see Printers on page 38.

For additional label sizes, see the product area on our website at www.phoenixcontact.net/products.

General data

Can be printed with:

Material	[°C]
Temperature range	
Wipe resistance	
Components	

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Technical data

Description

Color

Labels

10,000 labels p. roll	EML (10X4)R	0815583	1
10,000 labels p. roll	EML (10X7)R	0816663	1
2500 labels p. roll	EML (15X9)R	0815677	1
2500 labels p. roll	EML (16,5X5)R	0816702	1
2500 labels p. roll	EML (16X7)R	0818001	1
2500 labels p. roll	EML (17,5X8)R	0816744	1
2500 labels p. roll	EML (19X6)R	0816760	1
2500 labels p. roll	EML (20X8)R	0816786	1
2500 labels p. roll	EML (25,4X12,7)R	0816825	1
2500 labels p. roll	EML (30X20)R	0816922	1
2500 labels p. roll	EML (38X17)R	0816951	1
1000 labels p. roll	EML (40X8)R	0816980	1
1000 labels p. roll	EML (40X25)R	0818027	1
1000 labels p. roll	EML (51X25)R	0817028	1
1000 labels p. roll	EML (70X32)R	0817060	1
400 labels p. roll	EML (70X50)R	0817099	1
2500 labels p. roll	EML (90X5)R	0817109	1
300 labels p. roll	EML (100X40)R	0800286	1
300 labels p. roll	EML (100X73)R	0817125	1
250 labels p. roll	EML (100X90)R	0817154	1

Labels, on large roll

10,000 labels p. roll	EML (16,5X5)RL	0816113	1
10,000 labels p. roll	EML (25,4X12,7)RL	0816087	1
10,000 labels p. roll	EML (38,1X19)RL	0816171	1
10,000 labels p. roll	EML (50,8X25,4)RL	0816184	1
3000 labels p. roll	EML (69,8X31,8)RL	0816197	1

Labels, round, 17.5 mm diameter

2500 labels p. roll	EML (D17,5)R	0815774	1
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Continuous labels, on large roll

Width: 37 mm, length: 90 m	transparent	EML (37XE)RL TR	0815716	1
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Width: 100 mm, length: 90 m





Unlabeled, yellow



Unlabeled, silver

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Technical data			Technical data		
Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
EML (10X7)R YE	0816676	1			
EML (15X6) R YE	0819288	1			
EML (15X9)R YE	0816045	1	EML (15X9)R SR	0816032	1
EML (16,5X5)R YE	0816728	1			
EML (16X7)R YE	0816731	1			
EML (17,5X8)R YE	0816757	1			
EML (20X7)R YE	0816773	1			
EML (20X8)R YE	0816799	1	EML (21,5X21,5)R SR	0816812	1
EML (25,4X12,7)R YE	0816838	1	EML (26,5X7,5)R SR	0816841	1
EML (26,5X17,5)R YE	0816896	1	EML (26,5X12)R SR	0816854	1
EML (30X20)R YE	0816935	1	EML (26,5X17,5)R SR	0816883	1
EML (40X25)R YE	0816977	1	EML (26,5X18,5)R SR	0816906	1
EML (51X25)R YE	0817031	1	EML (26,5X26,5)R SR	0816919	1
EML (70X32)R YE	0817073	1	EML (40X15)R SR	0815729	1
EML (100X73)R YE	0817138	1	EML (51X25)R SR	0817002	1
EML (16,5X5)RL YE	0816126	1	EML (70X32)R SR	0817057	1
EML (17,5X8)RL YE	0816139	1	EML (70X50)R SR	0817086	1
EML (18X7)RL YE	0802733	1	EML (100X40)R SR	0802697	1
EML (76,2X6,5)RL YE	0816207	1	EML (100X73)R SR	0817112	1
			EML (100X90)R SR	0817141	1
			EML (101,6X25,4)RL SR	0815790	1
			EML (100XE)RL SR	0815787	1

Marking and labeling - MARKING system

Device marking

Stick-on device marking



PRINTED
FOR YOU



Labeled acc. to customer specifications, white

- All EML ... labels can also be supplied labeled according to customer requirements
- The EML ... materials are UL-listed
- **Designation example:**
EML (10X4)R...
Lettering field size: 10 x 4 mm

Notes:

For additional label sizes, visit www.phoenixcontact.net/products.

¹⁾ For ordering example, see page 359.

Technical data			
Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Labels, labeled according to customer requirements¹⁾			
8 labels per strip	EML (10X4)R CUS	0824289	1
8 labels per strip	EML (10X7)R CUS	0824290	1
8 labels per strip	EML (15X9)R CUS	0824294	1
8 labels per strip	EML (16,5X5)R CUS	0824297	1
5 labels per strip	EML (16X7)R CUS	0824301	1
5 labels per strip	EML (17,5X8)R CUS	0824303	1
4 labels per strip	EML (19X6)R CUS	0824306	1
4 labels per strip	EML (20X8)R CUS	0824309	1
4 labels per strip	EML (25,4X12,7)R CUS	0824313	1
3 labels per strip	EML (30X20)R CUS	0824323	1
3 labels per strip	EML (38X17)R CUS	0824328	1
3 labels per strip	EML (40X8)R CUS	0824332	1
2 labels per strip	EML (40X25)R CUS	0824330	1
2 labels per strip	EML (51X25)R CUS	0824335	1
1 label per strip	EML (70X32)R CUS	0824340	1
1 label per strip	EML (70X50)R CUS	0824343	1
1 label per strip	EML (90X5)R CUS	0824346	1
1 label per strip	EML (100X40)R CUS	0802698	1
1 label per strip	EML (100X73)R CUS	0824282	1
1 label per strip	EML (100X90)R CUS	0824285	1
Labels, labeled according to customer requirements¹⁾			
2 labels per strip	EML (38,1X19)RL CUS	0824327	1
1 label per strip	EML (50,8X25,4)RL CUS	0824333	1
1 label per strip	EML (69,8X31,8)RL CUS	0824339	1
4 labels per strip	EML (D17,5)R CUS	0824347	1



Labeled acc. to customer specifications, yellow



Labeled acc. to customer specifications, silver

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Technical data			Technical data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
EML (10X7)R YE CUS	0824291	1	EML (15X9)R SR CUS	0824295	1
EML (15X6)R YE CUS	0824348	1			
EML (15X9)R YE CUS	0824296	1	EML (26,5X7,5)R SR CUS	0824322	1
EML (16,5X5)R YE CUS	0824298	1	EML (26,5X12)R SR CUS	0824315	1
EML (16X7)R YE CUS	0824302	1	EML (26,5X17,5)R SR CUS	0824318	1
EML (17,5X8)R YE CUS	0824304	1	EML (26,5X18,5)R SR CUS	0824320	1
			EML (26,5X26,5)R SR CUS	0824321	1
EML (20X7)R YE CUS	0824308	1			
EML (20X8)R YE CUS	0824310	1	EML (40X15)R SR CUS	0824329	1
EML (25,4X12,7)R YE CUS	0824314	1	EML (51X25)R SR CUS	0824336	1
EML (26,5X17,5)R YE CUS	0824319	1	EML (70X32)R SR CUS	0824341	1
EML (30X20)R YE CUS	0824324	1	EML (70X50)R SR CUS	0824344	1
			EML (100X40)R SR CUS	0828993	1
EML (40X25)R YE CUS	0824331	1	EML (100X73)R SR CUS	0824283	1
EML (51X25)R YE CUS	0824337	1	EML (100X90)R SR CUS	0824286	1
EML (70X32)R YE CUS	0824342	1			
EML (100X73)R YE CUS	0824284	1	EML (101,6X25,4)RL SR CUS	0824288	1
EML (18X7)RL YE CUS	0802734	1			
EML (76,2X6,5)RL YE CUS	0824345	1			

Marking and labeling - MARKING system

Device marking

Stick-on device marking



Can be printed with:



Thermal transfer for rolls



Unlabeled or labeled according to customer specifications

- The EMLP ... self-adhesive markers meet the same standards as the engraved labels
- Quick and cost-effective labeling with THERMOMARK ... printers
- High-quality appearance
- High level of resistance to chemical and mechanical effects
- Primarily used for marking electrical components, devices, and buttons
- **Designation example:**
EMLP(13x9)R
Lettering field size: 13 x 9 mm
Type of packaging: roll
- Labeling service: Phoenix Contact can custom-label all EMLP ... markers in accordance with your requirements

Notes:

¹⁾ For ordering example, see page 359.

General data

Can be printed with:

Material	[°C]
Temperature range	
Wipe resistance	
Components	

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Technical data

Description

Color

Type

Order No.

Pcs. / Pkt.

Markers

500 markers p. roll	white	EMLP (13X9)R	0819453	1
500 markers p. roll	white	EMLP (17X7)R	0826844	1
500 markers p. roll	white	EMLP (17,5X12)R	0819466	1
3000 markers p. roll	white	EMLP (17,5X15)R	0802684	1
500 markers p. roll	white	EMLP (20X7)R	0819479	1
500 markers p. roll	white	EMLP (20X8)R	0819482	1
500 markers p. roll	white	EMLP (22X12)R	0819495	1
500 markers p. roll	white	EMLP (45X15)R	0801820	1
500 markers p. roll	white	EMLP (45X25)R	0802727	1
250 markers p. roll	white	EMLP (60X30)R	0819505	1
500 markers p. roll	white	EMLP (65X25)R	0802728	1

3000 markers p. roll
500 markers p. roll
500 markers p. roll
500 markers p. roll
500 markers p. roll
500 markers p. roll
500 markers p. roll
250 markers p. roll

silver	EMLP (17,5X15)R SR	0802685	1
silver	EMLP (27X8)R SR	0819518	1
silver	EMLP (27X12,5)R SR	0819521	1
silver	EMLP (27X18)R SR	0819534	1
silver	EMLP (22X22)R SR	0825528	1
silver	EMLP (27X27)R SR	0827467	1
silver	EMLP (45X15)R SR	0819547	1
silver	EMLP (60X30)R SR	0801729	1

Markers, labeled acc. to customer specifications¹⁾

4 markers per strip	white	EMLP (13X9)R CUS	0824354	1
2 markers per strip	white	EMLP (17X7)R CUS	0827083	1
2 markers per strip	white	EMLP (17,5X12)R CUS	0824355	1
6 markers per strip	white	EMLP (17,5X15)R CUS	0802690	1
2 markers per strip	white	EMLP (20X7)R CUS	0824356	1
2 markers per strip	white	EMLP (20X8)R CUS	0824357	1
2 markers per strip	white	EMLP (22X12)R CUS	0824358	1
1 marker per strip	white	EMLP (45X15)R CUS	0828990	1
1 marker per strip	white	EMLP (45X25)R CUS	0802730	1
1 marker per strip	white	EMLP (60X30)R CUS	0824363	1
1 marker per strip	white	EMLP (65X25)R CUS	0802731	1

6 markers per strip	silver	EMLP (17,5X15)R SR CUS	0802691	1
2 markers per strip	silver	EMLP (22X22)R SR CUS	0827475	1
2 markers per strip	silver	EMLP (27X8)R SR CUS	0824361	1
2 markers per strip	silver	EMLP (27X12,5)R SR CUS	0824359	1
2 markers per strip	silver	EMLP (27X18)R SR CUS	0824360	1
2 markers per strip	silver	EMLP (27X27)R SR CUS	0827469	1
2 markers per strip	silver	EMLP (45X15)R SR CUS	0824362	1
1 marker per strip	silver	EMLP (60X30)R SR CUS	0830398	1

Stick-on device marking, continuous

Can be printed with:



Thermal transfer for rolls

**Unlabeled or labeled according to customer specifications**

- The EMLP Ex... self-adhesive continuous markers are equivalent to engraved labels
- Quick and cost-effective labeling with THERMOMARK ... printers
- High-quality appearance
- High level of resistance to chemical and mechanical effects
- Primarily used for marking electrical components, devices, and buttons
- **Designation example:**
EMLP(13x9)R
Lettering field size: 13 x 9 mm
Type of packaging: roll
- Labeling service: Phoenix Contact can custom-label all EMLP ... markers in accordance with your requirements

Notes:

!) For ordering example, see page 359.

General data

Can be printed with:

Material	[°C]
Temperature range	
Wipe resistance	

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Technical data

Description

Color

Type

Order No.

Pcs. / Pkt.

Continuous roll

Width: 15 mm, length: 40 m
Width: 30 mm, length: 40 m

white

white

EMLP (EX15)R**EMLP (EX30)R**

0802686

0802688

1

1

Width: 15 mm, length: 40 m
Width: 30 mm, length: 40 m

silver

silver

EMLP (EX15)R SR**EMLP (EX30)R SR**

0802687

0802689

1

1

Continuous roll, labeled according to customer specifications¹⁾
Width: 15 mm, length: 40 m
Width: 30 mm, length: 40 m

white

white

EMLP (EX15)R CUS**EMLP (EX30)R CUS**

0802692

0802695

1

1

Width: 15 mm, length: 40 m
Width: 30 mm, length: 40 m

silver

silver

EMLP (EX15)R SR CUS**EMLP (EX30)R SR CUS**

0802694

0802696

1

1

Marking and labeling - MARKING system

Device marking

Stick-on device marking, for 24 mm buttons



Can be printed with:



Thermal transfer for rolls

PRINTED
FOR YOU



Unlabeled or labeled according to customer specifications

- The EMLP 24 ... self-adhesive markers are ideal for marking electrical buttons
- Quick and cost-effective labeling with THERMOMARK ... printers
- High-quality appearance
- High level of resistance to chemical and mechanical effects
- Labeling service: Phoenix Contact can custom-label all EMLP ... markers in accordance with your requirements

Notes:

1) For ordering example, see page 359.

General data

Can be printed with:

Material
Temperature range
Wipe resistance
Components

[°C]

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Technical data

Description

Color

Markers for 24 mm buttons,
can be labeled with thermal transfer printer

500 markers p. roll
500 markers p. roll
500 markers p. roll
500 markers p. roll

white
silver
red
green

EMLP 24 (30X12)R
EMLP 24 (30X12)R SR
EMLP 24 (30X12)R RD
EMLP 24 (30X12)R GN

0819550
0819563
0819576
0819589

1
1
1
1

Markers for 24 mm buttons, labeled acc. to customer
specifications¹⁾

2 markers per strip
2 markers per strip
2 markers per strip
2 markers per strip

white
silver
green
red

EMLP 24 (30X12)R CUS
EMLP 24 (30X12)R SR CUS
EMLP 24 (30X12)R GN CUS
EMLP 24 (30X12)R RD CUS

0824367
0824370
0824368
0824369

1
1
1
1

Ordering data

Stick-on device marking, for 30 mm buttons


Can be printed with:



Thermal transfer for rolls

**Unlabeled or labeled according to customer specifications**

- The EMLP 30 ... self-adhesive markers are ideal for marking electrical buttons
- Quick and cost-effective labeling with THERMOMARK ... printers
- High-quality appearance
- High level of resistance to chemical and mechanical effects
- Labeling service: Phoenix Contact can custom-label all EMLP ... markers in accordance with your requirements

Notes:

If using THERMOMARK ROLL,
use the external ROLL-ERH media hub.

General data

Can be printed with:

Material	[°C]
Temperature range	
Wipe resistance	

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Technical data**Description****Color****Type****Order No.****Pcs. / Pkt.**

Markers for 30 mm buttons,
can be labeled with thermal transfer printers
500 markers p. roll
500 markers p. roll
500 markers p. roll

1 marker per strip	white	EMLP 30(45X10)R	0801855	1
1 marker per strip	yellow	EMLP 30(45X10)R YE	0801857	1
1 marker per strip	black	EMLP 30(45X10)R BK	0801858	1

1 marker per strip	white	EMLP 30(45X10)R CUS	0802007	1
1 marker per strip	yellow	EMLP 30(45X10)R YE CUS	0802008	1
1 marker per strip	yellow	EMLP 30(45X10)R BK CUS	0802009	1

Device marking

Highly flexible PVC stick-on device marking



- Highly flexible, soft PVC label that adapts well to uneven surfaces
- Extremely high-quality appearance
- Outdoor-durable for up to eight years when subject to a temperature range of -50°C to 90°C
- Labeling service: Phoenix Contact can custom-label all EMLF ... markers in accordance with your requirements

Notes:

¹⁾ For ordering example, see page 359.

Can be printed with:



Thermal transfer for rolls



Unlabeled or labeled according to customer specifications

Technical data

General data

Can be printed with:

Material	
Temperature range	[°C]
Wipe resistance	

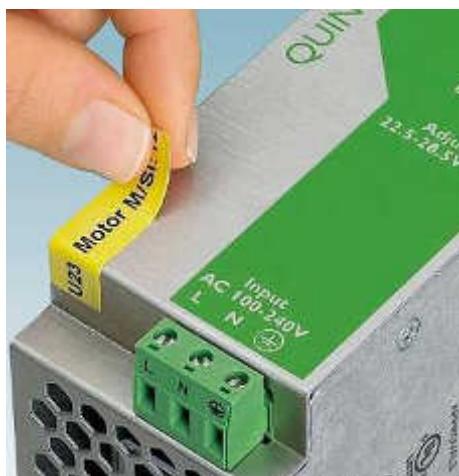
THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)

Ordering data

Description	Color	Type	Order No.	Pcs./Pkt.
Continuous label, width: 108 mm, length: 40 m				
	white	EMLF (108XE)R	0800549	1
	yellow	EMLF (108XE)R YE	0800550	1
	silver	EMLF (108XE)R SR	0800551	1
	transparent	EMLF (108XE)R TR	0800552	1
Continuous label, labeled acc. to customer specifications ¹⁾				
	white	EMLF (108XE)R CUS	0830183	1
	yellow	EMLF (108XE)R YE CUS	0830184	1
	silver	EMLF (108XE)R SR CUS	0830185	1
	transparent	EMLF (108XE)R TR CUS	0830186	1

Highly flexible stick-on textile foil

Can be printed with:



Thermal transfer for rolls



Unlabeled or labeled according to customer specifications

- Textile foil with extremely low restoring forces
- Enables labels to be stuck over edges and curves
- Halogen-free material
- Outdoor-durable for one to two years when subject to a temperature range of -40°C to +150°C
- Labeling service: Phoenix Contact can custom-label all EMLC ... markers in accordance with your requirements

Notes:

1) For ordering example, see page 359.

General data

Can be printed with:

Material	[°C]
Temperature range	
Wipe resistance	

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1 PA

-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen**Technical data****Description****Color****Type****Order No.****Pcs. / Pkt.****Fabric label**

10,000 labels p. roll	white	EMLC (5,5X20)R	0817617	1
5000 labels p. roll	white	EMLC (5,5X40)R	0817620	1
2500 labels p. roll	yellow	EMLC (15X9)R YE	0800236	1
2500 labels p. roll	yellow	EMLC (17,5X8)R YE	0800237	1
2500 labels p. roll	white	EMLC (20X8)R	0815680	1
2500 labels p. roll	yellow	EMLC (20X8)R YE	0800235	1
10,000 labels p. roll	yellow	EMLC (20X8)RL YE	0815800	1
2500 labels p. roll	yellow	EMLC (25X8)R YE	0800240	1
2500 labels p. roll	yellow	EMLC (25,4X12,7)R YE	0800238	1
1000 labels p. roll	yellow	EMLC (38X17)R YE	0800557	1
1000 labels p. roll	white	EMLC (40X8)R	0800554	1
1000 labels p. roll	yellow	EMLC (40X8)R YE	0800555	1
750 labels p. roll	yellow	EMLC (51X25)R YE	0800558	1

Fabric label, labeled according to customer requirements¹⁾

12 labels per strip	white	EMLC (5,5X20)R CUS	0824350	1
12 labels per strip	white	EMLC (5,5X40)R CUS	0824351	1
4 labels per strip	yellow	EMLC (15X9)R YE CUS	0830158	1
5 labels per strip	yellow	EMLC (17,5X8)R YE CUS	0830159	1
4 labels per strip	white	EMLC (20X8)R CUS	0824352	1
4 labels per strip	yellow	EMLC (20X8)R YE CUS	0830157	1
2 labels per strip	yellow	EMLC (25X8)R YE CUS	0830161	1
2 labels per strip	yellow	EMLC (25,4X12,7)R YE CUS	0830160	1
2 labels per strip	white	EMLC (40X8)R CUS	0830162	1
1 label per strip	yellow	EMLC (40X8)R YE CUS	0830163	1
2 labels per strip	yellow	EMLC (38X17)R YE CUS	0830164	1
1 label per strip	yellow	EMLC (51X25)R YE CUS	0830165	1

Marking and labeling - MARKING system

Device marking

Device marking for sticking onto rough or structured surfaces

The EML-HA ... self-adhesive device markers have excellent adhesive properties on rough, structured, and low-energy surfaces, thanks to their special adhesive.

- Precise printing quality and good adhesive properties
 - If high-quality ink ribbons are used, the labeling is resistant to solvents, making it suitable for use even under harsh industrial conditions
 - A wide range of different marker sizes is available in white and silver for custom designs
 - The special packaging protects rolls that have already been started from the dirt found in industrial environments
 - Labeling service: Phoenix Contact can custom-label all EML-HA ... labels according to your requirements
 - The labeling material is UL listed
 - **Designation example:**

EML-HA (15x9)R

Lettering field size: 15 x 9 mm

Type of packaging: roll

Can be printed with:



Thermal transfer for rolls



Unlabeled, white

Technical data

General data

General data

Material	
Temperature range	[°C]
Wipe resistance	
Components	

HERMOMARK ROLL • THERMOMARK ROLL X1 • THERMO-
MARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1

Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Ordering data

Notes:

¹⁾ For ordering example, see page 359.



Unlabeled, silver



Labeled acc. to customer specifications, white



Labeled acc. to customer specifications, silver

Technical data			Technical data			Technical data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1 Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen			Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen			Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen		
Ordering data			Ordering data			Ordering data		
EML-HA (15X9)R SR EML-HA (19X6)R SR EML-HA (20X20)R SR EML-HA (26,5X12)R SR EML-HA (40X8)R SR EML-HA (40X15)R SR EML-HA (51X25)R SR EML-HA (60X30)R SR EML-HA (70X32)R SR EML-HA (70X50)R SR EML-HA (70X150)R SR EML-HA (76X51)R SR EML-HA (85X32)R SR EML-HA (100X73)R SR EML-HA (100X90)R SR	0830611 0830612 0830613 0830614 0830615 0830616 0830733 0830617 0830618 0830734 0830619 0830620 0830621 0830623 0830735 0830736	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EML-HA (15X9)R CUS EML-HA (19X6)R CUS EML-HA (20X20)R CUS EML-HA (26,5X12)R CUS EML-HA (40X8)R CUS EML-HA (40X15)R CUS EML-HA (51X25)R CUS EML-HA (60X30)R CUS EML-HA (70X32)R CUS EML-HA (70X50)R CUS EML-HA (70X150)R CUS EML-HA (76X51)R CUS EML-HA (85X32)R CUS EML-HA (100X73)R CUS EML-HA (100X90)R CUS	0830622 0830623 0830624 0830625 0830626 0830627 0830737 0830628 0830629 0830738 0830630 0830631 0830632 0830739 0830740	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EML-HA (15X9)R SR CUS EML-HA (19X6)R SR CUS EML-HA (20X20)R SR CUS EML-HA (26,5X12)R SR CUS EML-HA (40X8)R SR CUS EML-HA (40X15)R SR CUS EML-HA (51X25)R SR CUS EML-HA (60X30)R SR CUS EML-HA (70X32)R SR CUS EML-HA (70X50)R SR CUS EML-HA (70X150)R SR CUS EML-HA (76X51)R SR CUS EML-HA (85X32)R SR CUS EML-HA (100X73)R SR CUS EML-HA (100X90)R SR CUS	0830633 0830634 0830635 0830636 0830637 0830638 0830741 0830639 0830640 0830742 0830641 0830642 0830643 0830743 0830744	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Marking and labeling - MARKING system

Device marking

Stick-on device marking, for high-temperature applications



Can be printed with:



Thermal transfer for rolls



Unlabeled

- White polyimide labels with high level of temperature resistance
- Continuous temperature range of -40°C to +180°C, up to +300°C temporarily, for up to 60 seconds
- For marking PCBs, can be used in all industrial soldering processes
- High weathering and chemical resistance
- The labeling material is UL listed
- Protection against tampering: the labels cannot be removed without disintegrating
- **Designation example:**
EML-HT (8x8)R
Lettering field size: 8 x 8 mm
Type of packaging: roll
- Single-web large roll with 8000 or 10,000 labels (see figure below)

Notes:

The THERMOMARK-RIBBON 110-EML-HT ink ribbon is required for marking EM-LHT... high-temperature labels, see Printers, page 39.

If large rolls are processed with the THERMOMARK ROLL, the external THERMOMARK ROLL-ERH media hub must be used.

¹⁾ For ordering example, see page 359.



General data

Can be printed with:

Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data		
THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1	Polyimide	

Polyimide

-40 ... 180

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
High-temperature labels				
4000 labels p. roll	white	EML-HT (8X8)R	0800340	1
4000 labels p. roll	white	EML-HT (15X6)R	0830644	1
4000 labels p. roll	white	EML-HT (15X15)R	0800341	1
4000 labels p. roll	white	EML-HT (20X7)R	0830645	1
4000 labels p. roll	white	EML-HT (24X4)R	0830646	1
4000 labels p. roll	white	EML-HT (25X8)R	0830647	1
2500 labels p. roll	white	EML-HT (25,4X12,7)R	0830648	1
2500 labels p. roll	white	EML-HT (32X10)R	0830649	1
2500 labels p. roll	white	EML-HT (35X6,5)R	0830650	1
1000 labels p. roll	white	EML-HT (40X15)R	0800339	1
2500 labels p. roll	white	EML-HT (45X5)R	0800337	1
1000 labels p. roll	white	EML-HT (50X10)R	0800338	1
1000 labels p. roll, round, 12 mm diameter	white	EML-HT (D12)R	0801376	1

High-temperature labels, on large roll

10,000 labels p. roll	white
10,000 labels p. roll	white
8000 labels p. roll	white
10,000 labels p. roll	white
10,000 labels p. roll	white
10,000 labels p. roll	white
10,000 labels p. roll	white
10,000 labels p. roll	white
8000 labels p. roll	white
10,000 labels p. roll	white
10,000 labels p. roll	white
10,000 labels p. roll	white

High-temperature label, labeled acc. to customer specifications¹⁾

4 labels per strip	white
5 labels per strip	white
4 labels per strip	white
4 labels per strip	white
2 labels per strip	white
2 labels per strip	white
3 labels per strip	white
2 labels per strip	white
2 labels per strip	white
4 labels per strip	white
1 label per strip	white

Accessories

Ink ribbon, specifically for high-temperature labels, EML-HT...			
black	THERMOMARK-RIBBON 110-EML-HT	0800342	1



Unlabeled, on large roll

**PRINTED
FOR YOU**


Labeled according to customer specifications

Technical data			Technical data		
THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1 Polyimide -40 ... 180 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen			- Polyimide -40 ... 180 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen		
Ordering data	Ordering data		Ordering data	Ordering data	
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
EML-HT (8X8)RL-T	0830651	1	EML-HT (8X8)R CUS	0830169	1
EML-HT (15X6)RL-T	0830652	1	EML-HT (15X6)R CUS	0830663	1
EML-HT (15X15)RL-T	0830653	1	EML-HT (15X15)R CUS	0830170	1
EML-HT (20X7)RL-T	0830654	1	EML-HT (20X7)R CUS	0830664	1
EML-HT (24X4)RL-T	0830655	1	EML-HT (24X4)R CUS	0830665	1
EML-HT (25X8)RL-T	0830656	1	EML-HT (25X8)R CUS	0830666	1
EML-HT (25,4X12,7)RL-T	0830657	1	EML-HT (25,4X12,7)R CUS	0830667	1
EML-HT (32X10)RL-T	0830658	1	EML-HT (32X10)R CUS	0830668	1
EML-HT (35X6,5)RL-T	0830659	1	EML-HT (35X6,5)R CUS	0830669	1
EML-HT (40X15)RL-T	0830660	1	EML-HT (40X15)R CUS	0830168	1
EML-HT (45X5)RL-T	0830661	1	EML-HT (45X5)R CUS	0830166	1
EML-HT (50X10)RL-T	0830662	1	EML-HT (50X10)R CUS	0830167	1
Accessories			Accessories		
THERMOMARK-RIBBON 110-EML-HT	0800342	1			

Marking and labeling - MARKING system

Device marking

**Stick-on device marking,
for ESD applications**

N



Can be printed with:



Thermal transfer for rolls



Unlabeled

- Safe marking for sensitive components on PCBs
- Static dissipative adhesive: prevents transmission of voltage and protects the component against electrostatic discharge
- Marking service: Phoenix Contact can custom-mark all EML-ESD ... markers according to your requirements
- **Designation example:
EML-ESD (8x8)R**
Lettering field size: 8 x 8 mm
Type of packaging: roll

Notes:

If large rolls are processed with the THERMOMARK ROLL, the external THERMOMARK ROLL-ERH media hub must be used.

¹⁾ For ordering example, see page 359.

General data

Can be printed with:

Material	
Temperature range	[°C]
Wipe resistance	-40 ... 150
Components	DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK S.1 • THERMOMARK X1.1 • THERMOMARK X1.2
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Device marking, roll				
4000 labels p. roll	white	EML-ESD (8X8)R	0830564	1
4000 labels p. roll	white	EML-ESD (15X6)R	0830565	1
4000 labels p. roll	white	EML-ESD (15X15)R	0830566	1
4000 labels p. roll	white	EML-ESD (20X7)R	0830567	1
4000 labels p. roll	white	EML-ESD (24X4)R	0830568	1
4000 labels p. roll	white	EML-ESD (25X8)R	0830569	1
2500 labels p. roll	white	EML-ESD (25,4X12,7)R	0830570	1
2500 labels p. roll	white	EML-ESD (32X10)R	0830571	1
2500 labels p. roll	white	EML-ESD (35X6,5)R	0830572	1
2500 labels p. roll	white	EML-ESD (40X15)R	0830573	1
2500 labels p. roll	white	EML-ESD (45X5)R	0830574	1
1000 labels p. roll	white	EML-ESD (50X10)R	0830575	1
Device marking, roll				
10,000 labels p. roll	white			
10,000 labels p. roll	white			
8000 labels p. roll	white			
10,000 labels p. roll	white			
10,000 labels p. roll	white			
10,000 labels p. roll	white			
10,000 labels p. roll	white			
10,000 labels p. roll	white			
10,000 labels p. roll	white			
8000 labels p. roll	white			
10,000 labels p. roll	white			
10,000 labels p. roll	white			
10,000 labels p. roll	white			
Device marking, roll, marked according to customer specifications¹⁾				
4 labels per strip	white			
5 labels per strip	white			
4 labels per strip	white			
4 labels per strip	white			
2 labels per strip	white			
2 labels per strip	white			
3 labels per strip	white			
2 labels per strip	white			
2 labels per strip	white			
2 labels per strip	white			
1 label per strip	white			



Unlabeled, on large roll



Labeled according to customer specifications

Technical data**Technical data**

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK S.1.1 • THERMOMARK X1.1 • THERMOMARK X1.2
 Polyester
 -40 ... 150
 DIN EN 61010-1 (VDE 0411-1)
 free from silicone and halogen

-
 Polyester
 -40 ... 150
 DIN EN 61010-1 (VDE 0411-1)
 free from silicone and halogen

Ordering data**Ordering data**

Type	Order No.	Pcs. / Pkt.
EML-ESD (8X8)RL-T	0830576	1
EML-ESD (15X6)RL-T	0830577	1
EML-ESD (15X15)RL-T	0830578	1
EML-ESD (20X7)RL-T	0830579	1
EML-ESD (24X4)RL-T	0830580	1
EML-ESD (25X8)RL-T	0830581	1
EML-ESD (25,4X12,7)RL-T	0830582	1
EML-ESD (32X10)RL-T	0830583	1
EML-ESD (35X6,5)RL-T	0830584	1
EML-ESD (40X15)RL-T	0830585	1
EML-ESD (45X5)RL-T	0830586	1
EML-ESD (50X10)RL-T	0830587	1

Type	Order No.	Pcs. / Pkt.
EML-ESD (8X8)R CUS	0830588	1
EML-ESD (15X6)R CUS	0830589	1
EML-ESD (15X15)R CUS	0830590	1
EML-ESD (20X7)R CUS	0830591	1
EML-ESD (24X4)R CUS	0830592	1
EML-ESD (25X8)R CUS	0830593	1
EML-ESD (25,4X12,7)R CUS	0830594	1
EML-ESD (32X10)R CUS	0830595	1
EML-ESD (35X6,5)R CUS	0830596	1
EML-ESD (40X15)R CUS	0830597	1
EML-ESD (45X5)R CUS	0830598	1
EML-ESD (50X10)R CUS	0830599	1

Marking and labeling - MARKING system

Device marking

Stick-on device marking, removable

Can be printed with:



Thermal transfer for rolls



Unlabeled

N

- Particularly suitable for temporary marking
- The labels adhere well and reliably, and can be removed easily and residue-free if required
- The labels cannot be reused following removal
- Marking service: Phoenix Contact can custom-mark all EML-RM ... markers according to your requirements
- **Designation example:**
EML-RM (8x8)R
Lettering field size: 8 x 8 mm
Type of packaging: roll

Notes:

If large rolls are processed with the THERMOMARK ROLL, the external THERMOMARK ROLL-ERH media hub must be used.

¹⁾ For ordering example, see page 359.

General data

Can be printed with:

Material	[°C]
Temperature range	
Wipe resistance	
Components	

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Labels, removable				
4000 labels p. roll	white	EML-RM (8X8)R	0830528	1
4000 labels p. roll	white	EML-RM (15X6)R	0830529	1
4000 labels p. roll	white	EML-RM (15X15)R	0830530	1
4000 labels p. roll	white	EML-RM (20X7)R	0830531	1
4000 labels p. roll	white	EML-RM (24X4)R	0830532	1
4000 labels p. roll	white	EML-RM (25X8)R	0830533	1
2500 labels p. roll	white	EML-RM (25,4X12,7)R	0830534	1
2500 labels p. roll	white	EML-RM (32X10)R	0830535	1
2500 labels p. roll	white	EML-RM (35X6,5)R	0830536	1
2500 labels p. roll	white	EML-RM (40X15)R	0830537	1
2500 labels p. roll	white	EML-RM (45X5)R	0830538	1
1000 labels p. roll	white	EML-RM (50X10)R	0830539	1
Labels, on large roll, removable				
10,000 labels p. roll	white			
10,000 labels p. roll	white			
8000 labels p. roll	white			
10,000 labels p. roll	white			
10,000 labels p. roll	white			
10,000 labels p. roll	white			
10,000 labels p. roll	white			
10,000 labels p. roll	white			
10,000 labels p. roll	white			
8000 labels p. roll	white			
10,000 labels p. roll	white			
10,000 labels p. roll	white			
4 labels per strip	white			
5 labels per strip	white			
4 labels per strip	white			
4 labels per strip	white			
2 labels per strip	white			
2 labels per strip	white			
3 labels per strip	white			
2 labels per strip	white			
2 labels per strip	white			
2 labels per strip	white			
1 label per strip	white			

Accessories

Ink ribbon, length: 300 m, width: 110 mm	black	THERMOMARK-RIBBON 110	5145384	1
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Unlabeled, on large roll



Labeled according to customer specifications

Technical data			Technical data		
THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1 Polyester -40 ... 120 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen			- Polyester -40 ... 120 DIN EN 61010-1 (VDE 0411-1) free from silicone and halogen		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
EML-RM (8X8)RL-T EML-RM (15X6)RL-T EML-RM (15X15)RL-T EML-RM (20X7)RL-T EML-RM (24X4)RL-T EML-RM (25X8)RL-T EML-RM (25,4X12,7)RL-T EML-RM (32X10)RL-T EML-RM (35X6,5)RL-T EML-RM (40X15)RL-T EML-RM (45X5)RL-T EML-RM (50X10)RL-T	0830540 0830541 0830542 0830543 0830544 0830545 0830546 0830547 0830548 0830549 0830550 0830551	1 1 1 1 1 1 1 1 1 1 1 1	EML-RM (8X8)R CUS EML-RM (15X6)R CUS EML-RM (15X15)R CUS EML-RM (20X7)R CUS EML-RM (24X4)R CUS EML-RM (25X8)R CUS EML-RM (25,4X12,7)R CUS EML-RM (32X10)R CUS EML-RM (35X6,5)R CUS EML-RM (40X15)R CUS EML-RM (45X5)R CUS EML-RM (50X10)R CUS	0830552 0830553 0830554 0830555 0830556 0830557 0830558 0830559 0830560 0830561 0830562 0830563	1 1 1 1 1 1 1 1 1 1 1 1
Accessories			Accessories		
THERMOMARK-RIBBON 110	5145384	1			

Device marking

Stick-on device marking, with anti-tamper protection



- Tamper-proof label, can be used as a rating plate or seal, for example
- When peeled off, part of the metallic layer comes away, leaving behind a triangular pattern on both the label and the surface
- The safety function is reliable up to 80°C
- Labeling service: Phoenix Contact can custom-label all EMLS ... markers in accordance with your requirements
- The EMLS ... materials are UL-listed
- **Designation example:**
EMLS (15x9)R SR
Lettering field size: 15 x 9 mm
Type of packaging: roll

Can be printed with:



Thermal transfer for rolls



Unlabeled



Technical data

General data

Can be printed with:

Material	[°C]
Temperature range	
Wipe resistance	
Components	

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Safety labels				
2500 labels p. roll	silver	EMLS (15X9)R SR	0800347	1
2500 labels p. roll	silver	EMLS (19X6)R SR	0800343	1
1000 labels p. roll	silver	EMLS (20X20)R SR	0800344	1
1000 labels p. roll	silver	EMLS (26,5X12)R SR	0800353	1
1000 labels p. roll	silver	EMLS (38,1X19)R SR	0800354	1
1000 labels p. roll	silver	EMLS (40X8)R SR	0800348	1
1000 labels p. roll	silver	EMLS (40X15)R SR	0800345	1
500 labels p. roll	silver	EMLS (60X30)R SR	0800355	1
500 labels p. roll	silver	EMLS (70X32)R SR	0800346	1
100 labels p. roll	silver	EMLS (70X150)R SR	0800351	1
250 labels p. roll	silver	EMLS (76X51)R SR	0800350	1
250 labels p. roll	silver	EMLS (85X32)R SR	0800356	1

Stick-on device marking, with anti-tamper protection

- All EMLS ... device markers can also be supplied marked according to customer requirements

Notes:

¹⁾ For ordering example, see page 359.



Labeled according to customer specifications

Technical data			
General data		Ordering data	
Description	Color	Type	Pcs. / Pkt.
Safety label, labeled acc. to customer specifications¹⁾			
4 labels per strip	silver	EMLS (15X9)R SR CUS	0830175 1
4 labels per strip	silver	EMLS (19X6)R SR CUS	0830171 1
4 labels per strip	silver	EMLS (20X20)R SR CUS	0830172 1
2 labels per strip	silver	EMLS (26,5X12)R SR CUS	0830179 1
2 labels per strip	silver	EMLS (38,1X19)R SR CUS	0830180 1
2 labels per strip	silver	EMLS (40X8)R SR CUS	0830176 1
2 labels per strip	silver	EMLS (40X15)R SR CUS	0830173 1
1 label per strip	silver	EMLS (60X30)R SR CUS	0830181 1
1 label per strip	silver	EMLS (70X32)R SR CUS	0830174 1
1 label per strip	silver	EMLS (70X150)R SR CUS	0830178 1
1 label per strip	silver	EMLS (76X51)R SR CUS	0830177 1
1 label per strip	silver	EMLS (85X32)R SR CUS	0830182 1

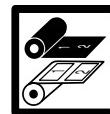
Marking and labeling - MARKING system

Device marking

Snap-in device markers for AxioLine systems from Phoenix Contact



Can be printed with:



Thermal transfer for rolls



Unlabeled or labeled according to customer specifications

- EMT ... insert strips are available in different sizes for labeling the AxioLine modules from Phoenix Contact
- EMT (62...)R insert strips are available in different sizes for labeling the Inline modules from Phoenix Contact
- Can be printed using all the thermal transfer printers available from Phoenix Contact
- Precise printing quality
- An overview of the devices that support labeling can be found starting on page 304

Notes:

1) For ordering example, see page 359.

General data

Can be printed with:

Material	[°C]
Temperature range	
Wipe resistance	
Components	

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Technical data

Description

Insert strips for AxioLine modules

500 labels per roll, lettering field size: 35 x 28 mm

white

EMT (35X28)R

Type

Order No.

Pcs. / Pkt.

0801602

1

yellow

EMT (35X28)R YE

0801603

1

white

EMT (35X46)R

0801604

1

yellow

EMT (35X46)R YE

0801605

1

white

EMT (62X10)R

0800057

1

yellow

EMT (62X10)R YE

0800477

1

white

EMT (62X46)R

0800059

1

yellow

EMT (62X46)R YE

0800478

1

white

EMT (35X28)R CUS

0830391

1

yellow

EMT (35X28)R YE CUS

0830392

1

white

EMT (35X46)R CUS

0830393

1

yellow

EMT (35X46)R YE CUS

0830394

1

white

EMT (62X10)R CUS

0830251

1

yellow

EMT (62X10)R YE CUS

0830252

1

white

EMT (62X46)R CUS

0830253

1

yellow

EMT (62X46)R YE CUS

0830254

1

Device markers for Siemens ET 200SP controllers

- EMT ... insert strips are available for marking Siemens controllers
- Can be printed using all the thermal transfer printers available from Phoenix Contact
- Precise printing quality
- An overview of the devices that support labeling can be found starting on page 304

Notes:

For additional information on the use of Siemens devices, see the product area on our website at www.phoenixcontact.net/products.

¹⁾ For ordering example, see page 359.

Can be printed with:



Thermal transfer for rolls



Unlabeled or labeled according to customer specifications

General data

Can be printed with:

Material	
Temperature range	[°C]
Wipe resistance	
Components	

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMO-MARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1

Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Technical data

Description	Color	Type	Order No.	Pcs. / Pkt.
Insert strips 500 labels per roll, lettering field size: 31 x 12.5 mm	gray	EMT (31X12,5)R GY	0801612	1
500 labels per roll, lettering field size: 50 x 26 mm	white	EMT (50X26)R	0800052	1
500 labels per roll, lettering field size: 50 x 26 mm	turquoise	EMT (50X26)R TQ	0800053	1
500 labels per roll, lettering field size: 50 x 26 mm	yellow	EMT (50X26)R YE	0800054	1
500 labels per roll, lettering field size: 103 x 17 mm	white	EMT (103X17)R	0800039	1
500 labels per roll, lettering field size: 103 x 17 mm	turquoise	EMT (103X17)R TQ	0800041	1
500 labels per roll, lettering field size: 103 x 17 mm	yellow	EMT (103X17)R YE	0800436	1
500 labels per roll, lettering field size: 103 x 23 mm	white	EMT (103X23)R	0800040	1
500 labels per roll, lettering field size: 103 x 23 mm	yellow	EMT (103X23)R YE	0800437	1
500 labels per roll, lettering field size: 103 x 23 mm	turquoise	EMT (103X23)R TQ	0800042	1
Insert strips with two lettering field sizes per roll, with 250 of each size measuring: 50 and 27.5 x 12.8 mm with 250 each of 50 x 12.8 mm and 27.5 x 12.8 mm	white	EMT (50/28X13)R	0800049	1
with 250 each of 50 x 12.8 mm and 27.5 x 12.8 mm	yellow	EMT (50/28X13)R YE	0800438	1
with 250 each of 50 x 12.8 mm and 27.5 x 12.8 mm	turquoise	EMT (50/28X13)R TQ	0800050	1
Insert strips, labeled according to customer specifications, 2 markers per strip, lettering field size: 31 x 12.5 mm ¹⁾	gray	EMT (31X12,5)R GY CUS	0830390	1
2 markers per strip, lettering field size: 50 x 26 mm	white	EMT (50X26)R CUS	0830248	1
2 markers per strip, lettering field size: 50 x 26 mm	turquoise	EMT (50X26)R TQ CUS	0830249	1
2 markers per strip, lettering field size: 50 x 26 mm	yellow	EMT (50X26)R YE CUS	0830250	1
2 markers per strip, lettering field size: 103 x 17 mm	white	EMT (103X17)R CUS	0830238	1
2 markers per strip, lettering field size: 103 x 17 mm	turquoise	EMT (103X17)R TQ CUS	0830239	1
2 markers per strip, lettering field size: 103 x 17 mm	yellow	EMT (103X17)R YE CUS	0830240	1
2 markers per strip, lettering field size: 103 x 23 mm	white	EMT (103X23)R CUS	0830241	1
2 markers per strip, lettering field size: 103 x 23 mm	turquoise	EMT (103X23)R TQ CUS	0830242	1
2 markers per strip, lettering field size: 103 x 23 mm	yellow	EMT (103X23)R YE CUS	0830243	1
Insert strips with two lettering field sizes per roll, labeled according to customer specifications, with 250 each of 50 and 27.5 x 12.8 mm	white	EMT (50/28X13)R CUS	0830245	1
with 250 each of 50 x 12.8 mm and 27.5 x 12.8 mm	turquoise	EMT (50/28X13)R TQ CUS	0830246	1
with 250 each of 50 x 12.8 mm and 27.5 x 12.8 mm	yellow	EMT (50/28X13)R YE CUS	0830247	1

Marking and labeling - MARKING system

Device marking

Stick-on device marking



- These labels have been specially developed for laser printers
- Can be printed on all commercially available laser printers
- The unperforated SK U ... sheets are available for custom label designs
- Labeling service: Phoenix Contact can custom-label all BMKL ... markers in accordance with your requirements

Notes:

Print image may vary depending on laser printer.

¹⁾ For ordering example, see page 359.

Can be printed with:



Laser



Unlabeled or labeled according to customer specifications

Technical data

General data

Can be printed with:

Material
Temperature range
Wipe resistance
Components

Office printing systems

Polyester
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

[°C]

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Sheet of labels for laser printer, DIN A4				
1 sheet = 273 labels	white	BMKL 12X12 WH	5032361	10
1 sheet = 290 labels	white	BMKL 15X 9 WH	0803663	10
1 sheet = 396 labels	white	BMKL 18X 6 WH	5032293	10
1 sheet = 288 labels	white	BMKL 18X 8 WH	5032280	10
1 sheet = 224 labels	white	BMKL 20X 8 WH	5032332	10
1 sheet = 224 labels	white	BMKL 25X 8 WH	5032374	10
1 sheet = 147 labels	white	BMKL 25X12 WH	5032374	10
1 sheet = 228 labels	white	BMKL 26,8X6,8 WH	0807106	10
1 sheet = 63 labels	white	BMKL 50X12 WH	5032387	10
1 sheet = 45 labels	white	BMKL 64X16 WH	0821807	2
1 sheet = 21 labels	white	BMKL 64X34 WH	5032400	10
1 sheet = 290 labels	yellow	BMKL 15X 9 YE	5032497	10
1 sheet = 405 labels	yellow	BMKL 16X 6 YE	0807096	10
1 sheet = 288 labels	yellow	BMKL 18X 8 YE	5032170	10
1 sheet = 168 labels	yellow	BMKL 19X11 YE	0800705	10
1 sheet = 224 labels	yellow	BMKL 20X 8 YE	5032138	10
1 sheet = 162 labels	yellow	BMKL 26X10 YE	0811516	10
1 sheet = 45 labels	yellow	BMKL 64X16 YE	0821810	2
1 sheet = 192 labels	silver	BMKL 27X 8 SR	0803702	10
1 sheet = 126 labels	silver	BMKL 27X12,5 SR	0803676	10
1 sheet = 84 labels	silver	BMKL 27X18 SR	0803689	10
1 sheet = 54 labels	silver	BMKL 27X27 SR	0803692	10
1 sheet = 360 labels	orange	BMKL 18X 6,5 OG	5036147	10
Label sheets, labeled acc. to customer specifications¹⁾				
1 sheet = 273 labels	white	BMKL 12X12 WH CUS	0824238	1
1 sheet = 290 labels	white	BMKL 15X 9 WH CUS	0824239	1
1 sheet = 396 labels	white	BMKL 18X 6 WH CUS	0824242	1
1 sheet = 288 labels	white	BMKL 18X 8 WH CUS	0824244	1
1 sheet = 224 labels	white	BMKL 20X 8 WH CUS	0824247	1
1 sheet = 224 labels	white	BMKL 25X 8 WH CUS	0824249	1
1 sheet = 147 labels	white	BMKL 25X12 WH CUS	0824250	1
1 sheet = 228 labels	white	BMKL 26,8X6,8 WH CUS	0824251	1
1 sheet = 63 labels	white	BMKL 50X12 WH CUS	0824257	1
1 sheet = 45 labels	white	BMKL 64X16 WH CUS	0824259	1
1 sheet = 21 labels	white	BMKL 64X34 WH CUS	0824261	1
1 sheet = 290 labels	yellow	BMKL 15X 9 YE CUS	0824240	1
1 sheet = 405 labels	yellow	BMKL 16X 6 YE CUS	0824241	1
1 sheet = 288 labels	yellow	BMKL 18X 8 YE CUS	0824245	1
1 sheet = 168 labels	yellow	BMKL 19X11 YE CUS	0824246	1
1 sheet = 224 labels	yellow	BMKL 20X 8 YE CUS	0824248	1
1 sheet = 162 labels	yellow	BMKL 26X10 YE CUS	0824252	1
1 sheet = 45 labels	yellow	BMKL 64X16 YE CUS	0824260	1
1 sheet = 192 labels	silver	BMKL 27X 8 SR CUS	0824253	1
1 sheet = 126 labels	silver	BMKL 27X12,5 SR CUS	0824254	1
1 sheet = 84 labels	silver	BMKL 27X18 SR CUS	0824255	1
1 sheet = 54 labels	silver	BMKL 27X27 SR CUS	0824256	1
1 sheet = 360 labels	orange	BMKL 18X 6,5 OG CUS	0824243	1
Marking sheet, unperforated, self-adhesive, DIN A4 format				
	white	SK U WH:UNGESTANZT	0800129	10
	yellow	SK U YE:UNGESTANZT	0800132	10
	silver	SK U SR:UNGESTANZT	0800145	10



Stick-on device marking

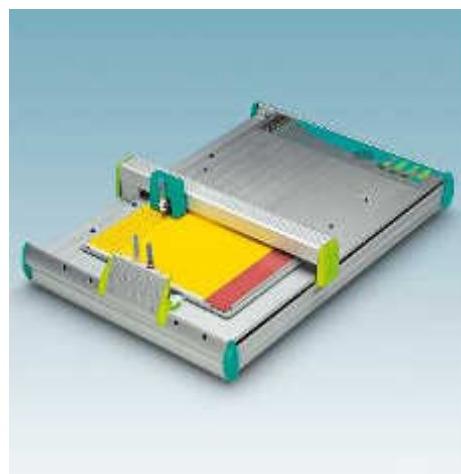
Can be printed with:



Plotter



Unlabeled or labeled according to customer specifications



- Self-adhesive labels for labeling by hand or with a plotter
- Secure adhesion even on curved or uneven surfaces as well as at corners
- Available in various dimensions
- Labeling service: Phoenix Contact can custom-label all BMK ... markers in accordance with your requirements

Notes:

1) For ordering example, see page 359.

General data

Can be printed with:

Material	[°C]
Temperature range Components	

Technical data

CMS-P1-PLOTTER
Polyester foil
-40 ... 80
Silicone-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Label sheet				
1 sheet = 270 labels	white	BMK 20X 8 WH	0805470	10
1 sheet = 324 labels	yellow	BMK 15X 9 YE	5031605	10
1 sheet = 198 labels	yellow	BMK 19X11 YE	5031582	10
1 sheet = 270 labels	yellow	BMK 20X 8 YE	5031388	10
1 sheet = 88 labels	yellow	BMK 38X11 YE	5031676	10
Labels, labeled according to customer requirements¹⁾				
1 sheet = 270 labels	white	BMK 20X 8 WH CUS	0824231	1
1 sheet = 324 labels	yellow	BMK 15X 9 YE CUS	0824229	1
1 sheet = 198 labels	yellow	BMK 19X11 YE CUS	0824230	1
1 sheet = 270 labels	yellow	BMK 20X 8 YE CUS	0824232	1
1 sheet = 88 labels	yellow	BMK 38X11 YE CUS	0824233	1

Accessories

Magazine for accommodating sheet material, self-adhesive mat for fixing labels, foils and paper, size of sheet max. DIN A4

CMS-P1-PAD	5144819	1
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Marking and labeling - MARKING system

Device marking

Stick-on device marking, can be engraved or labeled with writing



- The label sheet is made up of prefabricated, individual self-adhesive labels
- The adhesive foil used ensures good adhesive properties, even on uneven surfaces
- Can be easily labeled using the CMS-P1-PLOTTER
- Can be engraved using the P1 ENGRAVING UNIT
- Two-layer material
- Labeling service: Phoenix Contact can custom-label all GPE ... markers in accordance with your requirements

Notes:

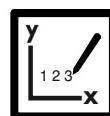
For matching magazines to accommodate the label sheets, see page 46.

¹⁾ For ordering example, see page 359.

Can be printed with:



Engraving



Plotter



Unlabeled or labeled according to customer specifications

Technical data

General data

Can be printed with:

Material
Temperature range
Wipe resistance
Components

[°C]

P1 ENGRAVING UNIT • CMS-P1-PLOTTER
TRANSPHY-ABS
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Plastic label sheet, self-adhesive double-layer plastic labels, material thickness: 0.8 mm, square corners				
1 sheet = 120 labels	white	GPE 13X 9 WH	0806932	10
1 sheet = 75 labels	white	GPE 17,5X12 WH	0806916	10
1 sheet = 100 labels	white	GPE 20X 7 WH	0806990	10
1 sheet = 88 labels	white	GPE 20X 8 WH	0806945	10
1 sheet = 60 labels	white	GPE 22X12 WH	0806929	10
1 sheet = 9 labels	white	GPE 52X26 WH	0806958	10
1 sheet = 9 labels	white	GPE 60X30 WH	0806961	10
1 sheet = 21 labels	red/white	GPE 60X12 RD-WH	0824202	10
1 sheet = 5 labels	yellow	GPE 70X32 YE	0824215	10
1 sheet = 30 labels	silver	GPE 28X17,5 SR	0807889	10

Plastic label sheet, labeled according to customer requirements¹⁾

1 sheet = 120 labels	white	GPE 13X 9 WH CUS	0824414	1
1 sheet = 75 labels	white	GPE 17,5X12 WH CUS	0824415	1
1 sheet = 100 labels	white	GPE 20X 7 WH CUS	0824416	1
1 sheet = 88 labels	white	GPE 20X 8 WH CUS	0824417	1
1 sheet = 60 labels	white	GPE 22X12 WH CUS	0824418	1
1 sheet = 9 labels	white	GPE 52X26 WH CUS	0824429	1
1 sheet = 9 labels	white	GPE 60X30 WH CUS	0824432	1
1 sheet = 21 labels	red/white	GPE 60X12 RD-WH CUS	0827720	1
1 sheet = 5 labels	yellow	GPE 70X32 YE CUS	0827721	1

Plastic label sheet, self-adhesive double-layer plastic labels, material thickness: 0.8 mm, with rounded corners, radius: 2 mm

1 sheet = 66 labels	white	GPE 27X 8 WH/R	0815198	10
1 sheet = 30 labels	white	GPE 27X18 WH/R	0815208	10
1 sheet = 26 labels	white	GPE 45X14 WH/R	0815282	10
1 sheet = 21 labels	white	GPE 60X12 WH/R	0807630	10
1 sheet = 9 labels	white	GPE 60X30 WH/R	0815292	10
1 sheet = 32 labels	silver	GPE 22X22 SR/R	0806628	10
1 sheet = 66 labels	silver	GPE 27X 8 SR/R	0806877	10
1 sheet = 42 labels	silver	GPE 27X12,5 SR/R	0806880	10
1 sheet = 30 labels	silver	GPE 27X18 SR/R	0806893	10
1 sheet = 18 labels	silver	GPE 27X27 SR/R	0806903	10
1 sheet = 26 labels	silver	GPE 45X14 SR/R	0807009	10
1 sheet = 21 labels	silver	GPE 60X12 SR/R	0806631	10

Plastic label sheet, with rounded corners, radius 2 mm, labeled according to customer requirements¹⁾

1 sheet = 66 labels	white	GPE 27X 8 WH/R CUS	0824421	1
1 sheet = 30 labels	white	GPE 27X18 WH/R CUS	0824424	1
1 sheet = 26 labels	white	GPE 45X14 WH/R CUS	0824428	1
1 sheet = 21 labels	white	GPE 60X12 WH/R CUS	0824431	1
1 sheet = 9 labels	white	GPE 60X30 WH/R CUS	0824433	1
1 sheet = 32 labels	silver	GPE 22X22 SR/R CUS	0824419	1
1 sheet = 66 labels	silver	GPE 27X 8 SR/R CUS	0824420	1
1 sheet = 42 labels	silver	GPE 27X12,5 SR/R CUS	0824422	1
1 sheet = 30 labels	silver	GPE 27X18 SR/R CUS	0824423	1
1 sheet = 18 labels	silver	GPE 27X27 SR/R CUS	0824425	1
1 sheet = 30 labels	silver	GPE 28X17,5 SR CUS	0824426	1
1 sheet = 26 labels	silver	GPE 45X14 SR/R CUS	0824427	1
1 sheet = 21 labels	silver	GPE 60X12 SR/R CUS	0824430	1



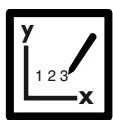
Stick-on device marking, can be engraved or labeled with writing



Can be printed with:



Engraving



Plotter



Unlabeled or labeled according to customer specifications

- High level of resistance to chemical and mechanical effects
- High-quality appearance
- Can be easily labeled using the CMS-P1-PLOTTER
- Can be engraved using the P1 ENGRAVING UNIT
- For marking components, devices, and buttons
- Labeling service: Phoenix Contact can custom-label all EMLP ... markers in accordance with your requirements

Notes:

1) For ordering example, see page 359.

General data

Can be printed with:

Material

Temperature range

Wipe resistance

[°C]

Components

P1 ENGRAVING UNIT • CMS-P1-PLOTTER

TRANSPLY-ABS

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone and halogen

Technical data

Description

Color

Type

Order No.

Pcs. /
Pkt.

Plastic label sheet, with a hole for 24 mm Ø pushbutton, self-adhesive double-layer plastic labels, material thickness: 0.8 mm

1 sheet = 6 labels

white

EMLP 24 (30X12)

0822301

1

1 sheet = 6 labels

black

EMLP 24 (30X12) BK

0822314

1

1 sheet = 6 labels

silver

EMLP 24 (30X12) SR

0822330

1

Plastic label sheet, with a hole for a 24 mm Ø button, self-adhesive double-layer plastic labels, material thickness: 0.8 mm, labeled according to customer specifications¹⁾

1 sheet = 6 labels

white

EMLP 24 (30X12) CUS

0824364

1

1 sheet = 6 labels

black

EMLP 24 (30X12) BK CUS

0824365

1

1 sheet = 6 labels

silver

EMLP 24 (30X12) SR CUS

0824366

1

Plastic label sheet, with a hole for 32 mm Ø pushbutton, self-adhesive double-layer plastic labels, material thickness: 0.8 mm

1 sheet = 6 labels

white

EMLP 32 (38X14)

0822291

1

1 sheet = 6 labels

black

EMLP 32 (38X14) BK

0822327

1

1 sheet = 6 labels

silver

EMLP 32 (38X14) SR

0822343

1

Plastic label sheet, with a hole for a 32 mm Ø button, self-adhesive double-layer plastic labels, material thickness: 0.8 mm, labeled according to customer specifications¹⁾

1 sheet = 6 labels

white

EMLP 32 (38X14) CUS

0824371

1

1 sheet = 6 labels

black

EMLP 32 (38X14) BK CUS

0824372

1

1 sheet = 6 labels

silver

EMLP 32 (38X14) SR CUS

0824373

1

Accessories

Magazine, to hold 1 GPE label sheet

CMS-P1-M/GPE ENGRAVING

5145711

1

Marking and labeling - MARKING system

Device marking

Marker carrier



- CARRIER-EMP ... marker carriers are used in conjunction with UC-EMP ... / US-EMP ... snap-in labels
- They are used to clearly identify devices and control cabinets
- They can be assembled using screws or rivets



For snap-in labels

Technical data				
General data		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
Marker carriers, for UC-EMP ... / US-EMP ... snap-in labels				
Marker size: 17 x 15 mm	black	CARRIER-EMP (17X15)	0827450	80
Marker size: 27 x 15 mm	black	CARRIER-EMP (27X15)	0827451	80
Marker size: 49 x 15 mm	black	CARRIER-EMP (49X15)	0827452	40
Marker size: 60 x 15 mm	black	CARRIER-EMP (60X15)	0827453	40
Marker size: 60 x 30 mm	black	CARRIER-EMP (60X30)	0827454	30
Marker size: 85 x 54 mm	black	CARRIER-EMP (85,6X54)	0829365	10

Marker carriers, can be labeled using snap-in markers for control devices



- Snap-in UC-/US-EMP ... labels are available for marking CARRIER-EMP 22 ... marker carriers
- Can be used for all buttons and switches with 22 mm diameter



For buttons and switches 22 mm in diameter

Technical data				
General data		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
Marker carriers, for UC-EM ... / US-EMP ... snap-in labels				
Marker size: 27 x 8 mm	black	CARRIER-EMP 22 (27X8)	0827445	50
Marker size: 27 x 12.5 mm	black	CARRIER-EMP 22 (27X12,5)	0827446	50
Marker size: 27 x 15 mm	black	CARRIER-EMP 22 (27X15)	0827447	50
Marker size: 27 x 18 mm	black	CARRIER-EMP 22 (27X18)	0827448	50
Marker size: 27 x 27 mm	black	CARRIER-EMP 22 (27X27)	0827449	50

Marker carriers, can be labeled using control device labels



- Can be used for all buttons and switches with a 22 mm diameter
- The large labeling areas provided by the CARRIER-EMLP can be custom-labeled using EML ... thermal transfer labels
- EMLPR ... transparent adhesive protective foil can be used for additional protection of the label surfaces



For buttons and switches 22 mm in diameter

Technical data			
Material	PA		
Inflammability class according to UL 94	V2		
Temperature range	[°C]		
Components	-40 ... 105		
Button diameter	free from silicone and halogen		
	22		
Ordering data			
Description	Color	Type	Order No.
Marker carrier, for buttons and switches with 22 mm diameter, can be labeled with EML ... self-adhesive labels			Pcs. / Pkt.
Marker size: 27 x 8 mm	black	CARRIER-EMLP 22 (27X8)	0828984
Marker size: 27 x 12.5 mm	black	CARRIER-EMLP 22 (27X12,5)	0828985
Marker size: 27 x 15 mm	black	CARRIER-EMLP 22 (27X15)	0828986
Marker size: 27 x 18 mm	black	CARRIER-EMLP 22 (27X18)	0828987
Marker size: 27 x 27 mm	black	CARRIER-EMLP 22 (27X27)	0828988

Transparent stick-on or snap-in cover



- Stuck or snapped onto labeled CARRIER ... to protect the labels
- Extremely thick, yet flexible and transparent shock protection
- High level of mechanical and chemical stability
- Suitable for permanent outdoor use



Shock protection

Ordering data			
Description	Color	Type	Order No.
Shock protection foil, designed for sticking into CARRIER-EMLP ...			Pcs. / Pkt.
51 labels per sheet	transparent	EMLPR (26,5X14,5)	0800546
42 labels per sheet	transparent	EMLPR (26,5X17,5)	0800360
30 labels per sheet	transparent	EMLPR (26,5X26,5)	0800361
Shock protection, designed for snapping into CARRIER-EMP ...			
	transparent	EMPPR (27X15)	0829535
	transparent	EMPPR (27X18)	0829536

Marking and labeling - MARKING system

Device marking

Marking profiles

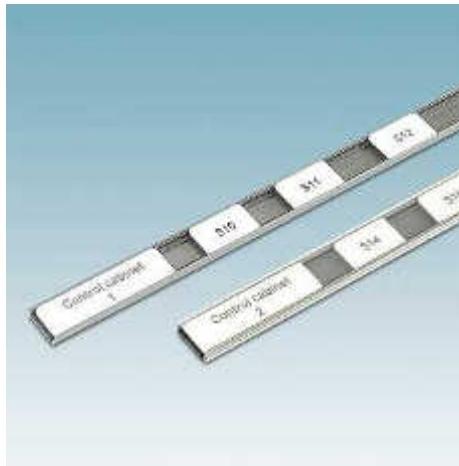
- Self-adhesive marker carriers, available by the meter for shortening as per individual requirements
- Powerful adhesion and optimum grip on standard device surfaces
- The P-SS-ZB 100 is particularly suitable for accommodating SS-ZB, UC-EM (20X9), UCT-EM (20X9)
- The P-ZB METER can accommodate marking material for the tall and flat marker grooves found on Phoenix Contact modular terminal blocks



Designed to be stuck on

Technical data			
Ordering data			
Description	Color	Type	Order No.
Profile, self-adhesive, for accommodating SS-ZB labels, UC-EM (20X9), UCT-EM (20X9), length: 1 m	gray	P-SS-ZB 100	1013737
Profile, self-adhesive, designed to accommodate UC-TM ..., UCT-TM ..., ZB ..., length: 1 m	gray	P-ZB METER	1051854

Marking profiles



Designed to be stuck on or for screwing/riveting

Technical data			
Ordering data			
Description	Color	Type	Order No.
Profile, for screwing or riveting, 1000 mm long, for accommodating UC-.../US-... and EMT ... material with a height of 15 mm	gray transparent	CARRIER-EMP (1000X15) GY CARRIER-EMP (1000X15) TR	0829366 0829530
Profile, self-adhesive, 1000 mm long, for accommodating UC-.../US-... and EMT ... material with a height of 15 mm	gray transparent	CARRIER/L-EMP (1000X15) GY CARRIER/L-EMP (1000X15) TR	0829559 0829560
CARRIER cover, 1000 mm long	transparent	CARRIER-EMP (1000X15) COVER	0829520

- CARRIER-EMP ... marker carriers can be custom-labeled with UC-EMP .../US-EMP ... and EMT ... device markers
- For marking devices
- For marking assemblies
- For marking control and switchgear

Marker carrier

For insert strips

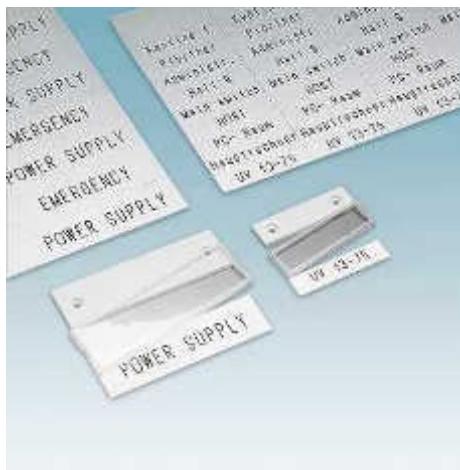
- Self-adhesive marker carriers for marking devices and components
- Powerful adhesion and optimum grip on standard device surfaces
- These carrier materials can be fitted, e.g., with UC-WMT ..., US-WMT ..., EMT ..., and UCT-WMT

Technical data				
Ordering data				
Description	Color	Type	Order No.	Pcs. / Pkt.
Component marking label , self-adhesive, can be labeled with UC-WMT ..., US-WMT ..., EMT ..., and UCT-WMT				
Lettering field size: 15 x 4 mm	transparent	PAB-SK 15	1013287	500
Lettering field size: 30 x 4 mm	transparent	PAB-SK 30	1013290	200
UniCard , with insert strips for PATG and PATO marking collars				
white	UC-WMT (15X4)	0819398	10	
yellow	UC-WMT (15X4) YE	0819408	10	
white	UC-WMT (30X4)	0819437	10	
yellow	UC-WMT (30X4) YE	0819440	10	
UniSheet , with insert strips for PATG and PATO marking collars				
white	US-WMT (15X4)	0828767	10	
yellow	US-WMT (15X4) YE	0828954	10	
white	US-WMT (30X4)	0828770	10	
yellow	US-WMT (30X4) YE	0828957	10	
UniCard , with insert strips for PATG and PATO marking collars				
white	UCT-WMT (15X4)	0801446	10	
yellow	UCT-WMT (15X4) YE	0801447	10	
white	UCT-WMT (30X4)	0801422	10	
yellow	UCT-WMT (30X4) YE	0801423	10	

Marking and labeling - MARKING system

Device marking

Marker carriers with cover



Can be printed with:



Plotter



For screw or rivet fixing

- Control cabinet markers consisting of a transparent cap and a base carrier
- The base carrier features two fixing holes so that it can be screwed on
- Once labeled, the insert label is inserted in the cap and this is then snapped onto the base carrier
- The labeling is protected against external influences
- The ES-SSMK ... insert strips can be labeled using the CMS-P1-PLOTTER and the CMS-P1-PAD magazine

General data

Can be printed with:

Material

Inflammability class according to UL 94

Temperature range

CMS-P1-PLOTTER

PC

V2

-40 ... 115

free from silicone and halogen

Components

[°C]

Drill hole spacing

[mm]

Hole diameter

[mm]

40

3.5

Technical data

Description

Control cabinet marker, two mounting holes M3

Size: 60 x 18 mm, lettering field: 56 x 14 mm,
incl. 1 x ES-SSMK-GB 60X18

Color

transparent/
white

Type

SSMK 60X18

Order No.

5032439

Pcs. /
Pkt.

50

Size: 96 x 30 mm, lettering field: 92 x 26 mm,
incl. 1 x ES-SSMK-GB 90X30

transparent/
white

SSMK 96X30

5032442

50

Accessories

Large format sheet insert strips, can be labeled with plotter,
DIN A4, perforated, material: cardboard

1 sheet = 75 strips, labeling field: 56 x 14 mm

transparent/
white

1 sheet = 22 strips, labeling field: 92 x 26 mm

transparent/
white

ES-SSMK-GB 60X18

5032468

10

ES-SSMK-GB 96X30

5032455

10



Transparent stick-on cover

- Extremely thick, but flexible and transparent label made from halogen-free PU
- Stuck over labels or markers that have been labeled to protect them
- High level of mechanical and chemical stability
- Suitable for permanent outdoor use

**Shock protection**

Technical data				
Ordering data				
Description	Color	Type	Order No.	Pcs. / Pkt.
Shock protection foil , designed for sticking into CARRIER-EMLP ...	transparent	EMLPR (26,5X14,5)	0800546	10
51 labels per sheet	transparent	EMLPR (26,5X17,5)	0800360	10
42 labels per sheet	transparent	EMLPR (26,5X26,5)	0800361	10
30 labels per sheet	transparent	EMLPR (30X40)	0800359	10
14 labels per sheet	transparent	EMLPR (80X42)	0800357	10
6 labels per sheet	transparent	EMLPR (80X60)	0800358	10
4 labels per sheet	transparent	EMLPR (100X30)	0800362	10

Marking and labeling - MARKING system

Device marking

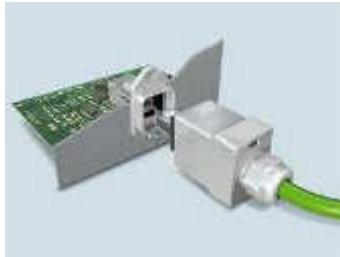
Device marking for Phoenix Contact



UC-TM 6	UCFTM 6	UC-TMF 6	UC-TMF 12	UCFTMF 6	UCFTMF 12	UC-EM (17,5X9)	UC-EM (20X9)	UC-EMP (20X9)	US-EMP (20X9)	UCT-EM (17,5X9)	UCT-EM (20X9)	ZB 5, ZB 6, ZB 15
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Catalog 7: interface technology and switchgear

INTERFACE Relay PLC power terminal block Order No. 2966508												
INTERFACE Relay PLC-B..., PLC-O..., PLC-R...												
DEK-REL... relay terminal block												
DEK-OE... special relays												
DEK-TR... inverter module												
COMPACT-LINE UM 45...												
PROCESS INTERFACE PI-EX...												
RIFLINE complete												



UC-TM 5 UCFTM 5	UCIUTM 5	UC-TM 6 UCFTM 6	UC-TMF 8 UCFTMF 8	UC-TMF 10 UCFTMF 10	UC-TMF 16 UCFTMF 16	UC-WMT (23X4) US-WMT (23X4)	UC-EM (17,5X9)	UC-EM (20X7)	UC-EMP (20X9) US-EMP (20X9)	UCT-EM (17,5X9)	UCT-EM (20X7)	UCT-EM (20X9)
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Catalog 4: sensor/actuator cabling and industrial plug-in connectors

SACB with M8 slots												
SACB with M12 slots												
SACB with M5 slots												
SACB-SPEEDCON distributor boxes with M12 slots and metal threads												
SACB-SPEEDCON distributor boxes with M12 slots and plug-in screw connection												
Distributor boxes with QUICKON slots												
Sensor/actuator cabling accessories												
PSR-SACB sensor box with M12 slots												
VS-SCRJ..., VS-IL-2X... data plug-in connectors												
ASI CC DIST... AS-Interface distributor												
VS-SI... front plate												
HC-M... modular contact insert												
HEAVYCON HC-B...A... heavy-duty plug-in connectors												
HEAVYCON HC-D...A... heavy-duty plug-in connectors												

**Catalog 6: surge protection and power supply units**

	UC-TM 6	UCT-TM 6	UC-TMF 5	UC-TMF 18	UCT-TMF 5	UCT-TMF 18
FLASHTRAB compact PLUS lightning arrester						
FLASHTRAB PLUS lightning arrester						
FLASHTRAB compact lightning arrester						
VALVETRAB compact surge arrester						
VALVETRAB MS surge arrester						
MAINS-PLUGTRAB device protection						
PLUGTRAB with function monitoring PT-IQ						
PLUGTRAB PT... plug-in surge protection cascade						
Modular terminal blocks with TT... surge protection elements	■	■				

**Catalog 8: control technology, I/O systems, automation infrastructure**

	UC-TM 6	UCT-TM 6	UC-TMF 6	UC-TMF 8	UC-TMF 12	UCT-TMF 6	UCT-TMF 8	UCT-TMF 12	UCT-EM (7X10)	EMT (35X18,7)	EMT (35X28)	EMT (35X46)
Inline												
INTERBUS ST...	■	■										
Fieldline... M8			■									
Fieldline... M12				■								
Axioline F series								■				
Axioline E series								■				

Marking and labeling - MARKING system

Device marking

Device marking for devices from other manufacturers



ABB

Miniature circuit breaker S 221..., S 223..., S 281..., S 284...

Residual current device F271..., F172...

Switch, button, indicator light E 221..., E 222..., E 223...

Switch, button, indicator light E 225..., E 226..., E 227...

Power dimmer STD...

Power supply unit NTLS...

Power consumption meter RS 232...

Installation contactors ESB..., EN...

Miniature circuit breakers LE1..., LE3..., LP1-3..., LPUC 1/2, LP1NA..., LP3NA...

Residual current devices F..., FIP..., FIK..., FI-LP..., FIS...

FI signal generator FISG...

Load switch IS...

Surge arrester SA 4...

Logic modules

Logic and extension module LM..., DO..., DX...

Miniature circuit breaker

Switch contacts A9, A12, A16, A26, A30, A40, A50, A63, A75, A95, A110, A145, A185, A210, A260, A300, AF400, AF460, AF580, AF750

Mini contacts B6, B7

SZ-KZS

	UC-EM (17,5X7,5)	UC-EM (17,5X8)	UCT-EM (17X9)	UCT-EM (17,5X7,5)	UCT-EM (17,5X8)	UCT-EM (17X8)	UCT-EM (20X9)
ABB							
Miniature circuit breaker S 221..., S 223..., S 281..., S 284...							
Residual current device F271..., F172...							
Switch, button, indicator light E 221..., E 222..., E 223...							
Switch, button, indicator light E 225..., E 226..., E 227...							
Power dimmer STD...							
Power supply unit NTLS...							
Power consumption meter RS 232...							
Installation contactors ESB..., EN...							
Miniature circuit breakers LE1..., LE3..., LP1-3..., LPUC 1/2, LP1NA..., LP3NA...							
Residual current devices F..., FIP..., FIK..., FI-LP..., FIS...							
FI signal generator FISG...							
Load switch IS...							
Surge arrester SA 4...							
Logic modules							
Logic and extension module LM..., DO..., DX...							
Miniature circuit breaker							
Switch contacts A9, A12, A16, A26, A30, A40, A50, A63, A75, A95, A110, A145, A185, A210, A260, A300, AF400, AF460, AF580, AF750							
Mini contacts B6, B7							
SZ-KZS							

	UCT-EM (17X10)
Allen-Bradley	
100-C09Z*10, 100-F A22, 100-F A40	
Motor starter 140M x	

	UCT-EM (10x5)	UCT-EM (12x7)	UC1-TMF 5 UCT1-TMF 5
Beckhoff			
BK 3010, BK 3110			
BC 2000, BC 3100, BC 4000			
BC 9000, BC 9050			
Field distributor IE 3112-2-00			
IL 2301-B310			
SAI distributor (sensor/actuator interface)			

	UCT-EM (12x3,3)	UCT-EM (12x6)
Bernecke + Rainer		
X20 system		

	UCT-EM (10x8)	
Bosch/Rexroth		
Bosch/distributor		

Marking and labeling - MARKING system

Device marking

Device marking for devices from other manufacturers



CONTA-CLIP

PRSU

CP V4, optocoupler, AOP

PGSV, PSP

UCT-EM (5X10)

UCT-EM (6X10)

UC-EM (20X9)
UCT-EM (20X9)

ESCHA

Distributor block MB

Distributor block FK/FKS

M12 distributor

Distributor block 8MB

UCT-EM (10X5)

UCT-EM (20X8)

UC-EM (20X9)
UCT-EM (20X9)

FESTO

Compact Performance

CPA10/EV1

CP-E16 valve island

CP-E16-KL-CL

Electronics CP-16-M

IBS 6x10

MPV-E/A08-M8, MPV-E/A08-M12, MPV-E/A12-M8

CPV pneumatics

IBS 9/17

IBS 10/17

MT

Valve island IBS 9/20

CPV18-V1 valves

UCT-EM (6X10)

UCT-EM (17X9)

UCT-EM (17X10)

UC-EM (20X9)
UCT-EM (20X9)

	UCT-EM (6x10)	UCT-EM (17x9)									
Finder											
Variclip (relay retaining bracket)											
Variclip 020.24											
Sockets with screw and spring-cage terminal block, 93 series											
HARTING	UC-EM (20x7) UCT-EM (20x7)	UC-EM (20x9) UCT-EM (20x9)	UC-TM 6 UCT-TM 6	UC-TM 5 UCT-TM 5							
Front plate Han - Port											
Plug-in connector Han - Snap											
Connection distributor Han - E AV											
Connection distributor Han - D AV											
ifm-electronic	UC-EM (10x8)	UC-EM (17,5x8)	UC-EM (20x7)	UC-EM (21x8)	UCT-EM (10x8)	UCT-EM (17x8)	UCT-EM (17,5x8)	UCT-EM (18x8)	UCT-EM (20x7)	UCT-EM (20x9)	UCT-EM (21x8)
AC 20 xx classic module/universal M											
AC 24 80/81 CompactLine											
AC 5210 AS-i module											
AV 52xx ClassicLine											
AC 225 SmartLine											
ClassicLine distribution module AC52...											
Active AS-i module AC2480											
AC 50 xx module bases											
Active AS-i module AC225...											
Compact module AC 24 xx											

Marking and labeling - MARKING system

Device marking

Device marking for devices from other manufacturers



Lumberg

INTERBUS remote bus terminal block

PROFIBUS DP...

CANopen® device CSL...

DeviceNet™ device DSL...

AS-Interface module

Ethernet switch EEC...

Sensor/actuator distributor ASB

Valve adapter VAD...

Valve adapter VBD...

I/O module UEM...

PROFIBUS DP PSL 7...

AS-Interface module ASL 501

AS-Interface ABAS/UTAS

Terminal strip SBS4/LED-3

Distributors E2C and SB8

AS-Interface IBA, IBI, IPB

ASB 2-VC-1A, ASB 8

ASBM 12/LED 3, ASBSM 4/LED 3

PROFIBUS 0970-PSL-651

	UC-EM (10X8)	UC-EM (17,5X7,5)	UC-EM (19X9)	UC-EM (20X9)	UCT-EM (10X5)	UCT-EM (10X8)	UCT-EM (17,5X7,5)	UCT-EM (20X9)
INTERBUS remote bus terminal block								
PROFIBUS DP...								
CANopen® device CSL...								
DeviceNet™ device DSL...								
AS-Interface module								
Ethernet switch EEC...								
Sensor/actuator distributor ASB								
Valve adapter VAD...								
Valve adapter VBD...								
I/O module UEM...								
PROFIBUS DP PSL 7...								
AS-Interface module ASL 501								
AS-Interface ABAS/UTAS								
Terminal strip SBS4/LED-3								
Distributors E2C and SB8								
AS-Interface IBA, IBI, IPB								
ASB 2-VC-1A, ASB 8								
ASBM 12/LED 3, ASBSM 4/LED 3								
PROFIBUS 0970-PSL-651								

	UC-EM (17,5X8)	UC-EM (20X9)	UCT-EM (17,5X8)	UCT-EM (20X9)
Moeller				
Function relay DILET 11..., DILET 70..., EMR 4...				
Basic device and extension module EASY 2..., EASY 5..., EASY 6..., EASY 7..., EASY 200...				
Relay ZE..., ZEV...				
Contactor DILER, DILEM				

	UC-EM (17,5X9)	UC-EM (20X9)	UC-EM (21X8)	UCT-EM (5X10)	UCT-EM (10X5)	UCT-EM (17X9)	UCT-EM (17,5X8)	UCT-EM (17,5X9)	UCT-EM (17X8)	UCT-EM (20X8)	UCT-EM (20X9)	UCT-EM (21X8)
MURR ELEKTRONIK												
ASI IO SL DIO 8/4/4												
M8 distributors												
MSUD valve connector combination												
AS-i bus module MVK8												
MVPS8 sensor/actuator box												
B6 mini contact												
Initiator holder												
M12 Y cable												
Plastic M12 distributor systems												
MERINO												
Merio M12 8-way distributor 27106												
MVK12 AS-i bus module												
MVM8 Order No. 276658												
MVP 12 distributor: 4-way 27114												
MVP 12 distributor: 6-way 27115												
MVP 12 distributor: 8-way 27116												
MVP 12 AS-i module distributor 27773 to 27778												
Cube 67												
MASI												
MICO 4.6												
MVP 12 distributor: 4-way 27530, MVP 12 distributor: 8-way 27535												
MVK MP DI 08, DI 8 PROFIBUS												
AMMS/AMMDS												
AMZS/AMZSW, Order No. 276397												
AS/S01/DIL/RC-BUG2												
Cube 67 BN-P, KM 5, Logic distributor 8-way M12, Order No. 276247												
M12 distributor, MAW/MDW, MBM bus modules IP20, MBV series												
MIS system wiring, MKS/MKSxxx, MPOT, MSUD valve connection technology												
MSVD/MSDO, MSVS, MUFW/MF...W/MIB												
MVK-I bus module Order No. ME 553300												
NEF mains interference filter, RMM/RMME, UFL/UG-SB/UGS/SV/LUGS/PKB												
Valve connector type A, B, BI, C, CI, distributor MVB 8V												

Marking and labeling - MARKING system

Device marking

Device marking for devices from other manufacturers



Pepperl & Fuchs

G6 compact modules

ASI VAA-2E-64SN (pneumatic module VAA)

AS-i bus module, G6 compact module, IPG-64-B7

VAS 2A-K 12 U, WA-4E-62-ZE

UC-EM (20x9)

UCT-EM (10x5)

UCT-EM (10x8)

UCT-EM (20x9)

Schneider Electric	UC-EM (18x8)	UC-EM (21x8)	UCT-EM (17x8)	UCT-EM (18x8)	UCT-EM (21x8)
Standard contactors GC 1610, 1611, 1620, 2502, 2510, 2511, 2520					
Preselection contactors GY 1611, 1620, 2511, 2520					
TesSys D series, D control relay, K, K control relay					
TesSys model U					
Standard contactors GC 1622, 1630, 1640, 2504, 2522, 2530, 2540					

Standard contactors 4002, 4004, 4011, 4020, 4022, 4030, 4040, 6302, 6304, 6311, 6320, 6322, 6330, 6340, 10020, 10040					
Preselection contactors GY 1640, 2530, 2540, 4020, 4030, 4040, 6320, 6330, 6340					
Motor adjustment combination TeSys LD1...					
Motor adjustment combination HL contactors LD 4...					
Motor output/reversing combination LD5...					

	UC-EM (10X7)	UC-EM (10X8)	UC-EM (20X7)	UC-EM (20X9)	EMT (50/28X13)R...	EMT (50X26)R...	EMT (103X17)R...	EMT (103X23)R...	UCT-EM (10X7)	UCT-EM (10X8)	UCT-EM (15X10)	UCT-EM (20X7)	UCT-EM (20X9)
Siemens													
AS-i slaves I/O module K45.../K60...													
ASIsafe module K45.../K60..., mounting plate K45/K60													
AS-i slaves SlimLine S22.5.../S45...													
AS-i slaves counter module, ground fault detection module													
AS-i slaves surge protection module													
AS-i repeater, 4-way distributor, round cable distributor													
AS-i compact module K20...													
Contactor, auxiliary contactor, contactor combination, auxiliary switch block													
Auxiliary switch blocks 3RH 1921...													
EMI interference suppression module													
Solid-state relay, solid-state contactor, special function module													
Circuit breaker, el. overload relay, therm. overload relay													
Soft starter, direct starter													
Motor management and control devices, timer relays, monitoring relays, safety relays													
ET 200S													
S7-300													
ET 200SP													
Bus module ET 200X, contact block, Signum button series, 3SB3 button, switching element 3SB14...													
Motor circuit breaker													
End block 8WA1 808													

Marking and labeling - MARKING system

Device marking

Device marking for devices from other manufacturers



Telemecanique	UC-EM (18X8)	UC-EM (21X8)	UCT-EM (18X8)	UCT-EM (21X8)
Standard contactor GC 1610, 1611, 1620, 2502	■	■	■	
Standard contactor GC 1622, 1630, 1640, 2504		■		■
Standard contactor GC 2510, 2511, 2520	■		■	
Standard contactor GC 2522, 2530, 2540		■		■
Standard contactor GC 4002, 4004, 4011, 4020, 4022, 4030, 4040		■		
Standard contactor GC 6302, 6304, 6311, 6320, 6322, 6330, 6340		■		
Standard contactor GC 10020, 10040		■		■
Preselection contactor GY 1611, 1620	■		■	
Preselection contactor GY 1640		■		■
Preselection contactor GY 2511, 2520	■		■	
Preselection contactor GY 2530, 2540		■		■
Preselection contactor GY 4020, 4030, 4040		■		
Preselection contactor GY 6320, 6330, 6340		■		
Motor output combination TeSys LD1...		■		
Motor output combination HL contactors LD4...		■		
Motor output combination/reversing combination LD5...		■		■

	UC-EM (20x9)	UCT-EM (10x5)	UCT-EM (20x8)	UCT-EM (20x9)
Turck				
PLC distributor SDPB-0404D-006, SDPL-0404D-1003, SAI distributor				
JTBS-46SC 8MB12-xxx, FLDP-IM-8, PDP-M81 / I16T				
Wago				
Miniature circuit breaker				
I/O modules				
Weidmüller				
M8 distributor systems	UC1-TMF 5	UC1-TM 5	UC-EM (19x9)	UC-EM (17,5x9)
M5 distributor systems		UCT1-TMF 5		UC-EM (20x9)
Actuator/sensor interface			UCT1-TM 5	UCT-EM (17,5x9)
Actuator/sensor interface line				UCT-EM (20x9)
M12 distributor systems				UCT-EM (20x9)
M12 metal distributor systems				UCT-EM (20x9)
SAI distributor				UCT-EM (20x9)

Marking and labeling - MARKING system

Device marking

Marker carriers from Phoenix Contact



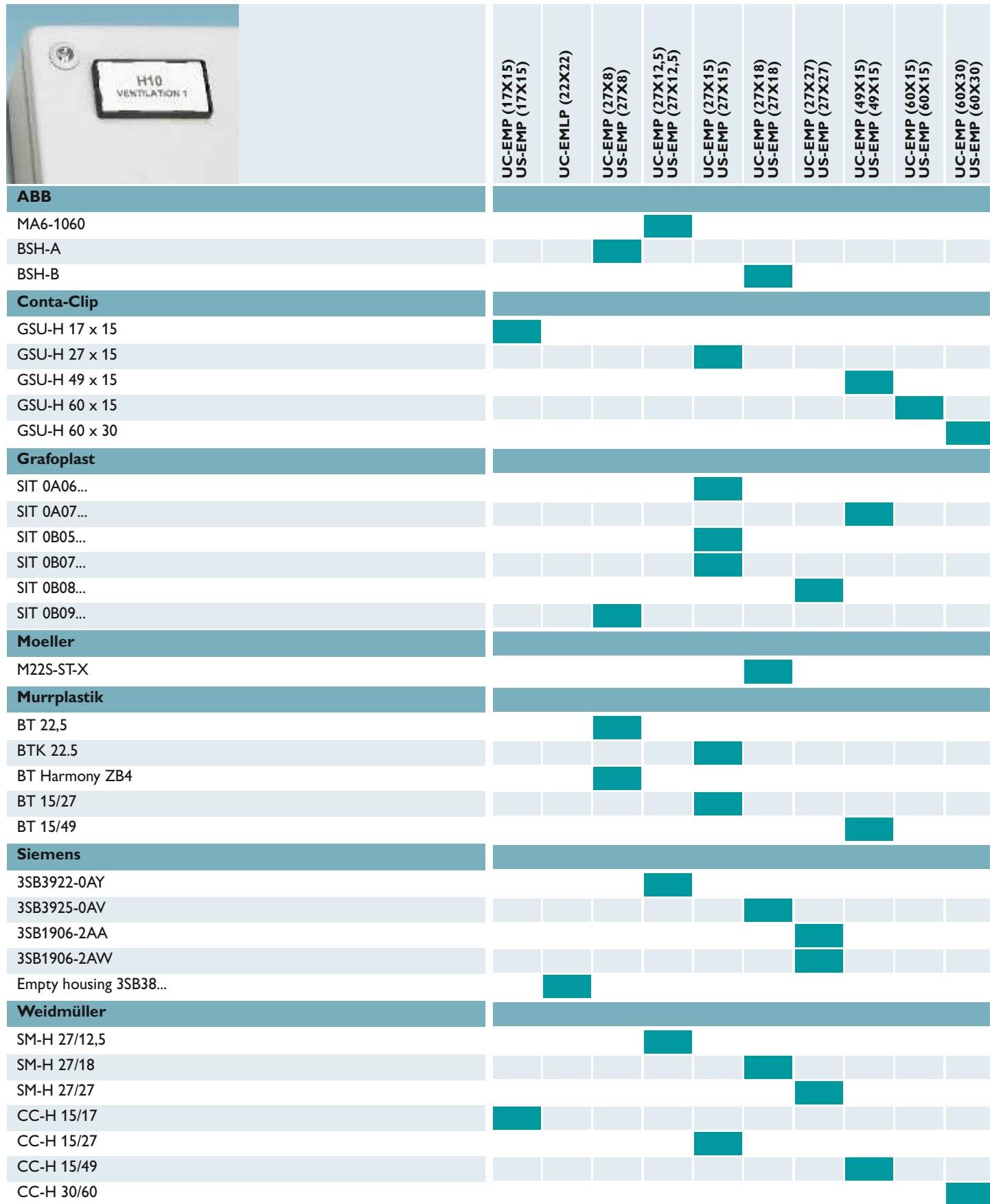
Phoenix Contact

CARRIER-EMP 22 (27 x 8)	UC-EMP (27X8) US-EMP (27X8) US-EMLP (27X8) EML (26,5X7,5)R SR EMLP (27X8)R SR
CARRIER-EMP 22 (27 x 12,5)	
CARRIER-EMP 22 (27 x 15)	
CARRIER-EMP 22 (27 x 18)	
CARRIER-EMP 22 (27 x 27)	
CARRIER-EMLP 22 (27 x 8)	UC-EMP (27X12,5) US-EMP (27X12,5) US-EMLP (27X12,5) EML (26,5X12)R SR EMLP (27X12,5)R SR
CARRIER-EMLP 22 (27 x 12,5)	
CARRIER-EMLP 22 (27 x 15)	
CARRIER-EMLP 22 (27 x 18)	
CARRIER-EMLP 22 (27 x 27)	

Phoenix Contact

CARRIER-EMP (17 x 15)	UC-EMP (17X15) US-EMP (17X15)
CARRIER-EMP (27 x 15)	UC-EMP (27X15) US-EMP (27X15)
CARRIER-EMP (49 x 15)	UC-EMP (49X15) US-EMP (49X15)
CARRIER-EMP (60 x 15)	UC-EMP (60X15) US-EMP (60X15)
CARRIER-EMP (60 x 30)	UC-EMP (60X30) US-EMP (60X30)
CARRIER-EMP (85,6 x 54)	US-EMP (85,6X54)
CARRIER-EMP (1000 x 15)	
CARRIER-EMP (1000 x 15) TR	
CARRIER/L-EMP (1000 x 15)	
CARRIER/L-EMP (1000 x 15) TR	

Marker carriers from other manufacturers





System marking - MARKING system

Clear and extensive marking of systems not only guarantees safety but is also a legal requirement. Safety and information signs provide important information and help to improve operational processes.

Phoenix Contact offers numerous marking labels for system marking. From warning labels to multicolored symbol signs, the extremely diverse product range covers all applications. We offer a range of printing systems for labeling.

Product range overview

System marking	318
PML-W... warning labels	
Unlabeled warning labels, UniSheet material	320
Unlabeled warning labels, supplied in rolls	321
Preprinted warning labels	322
PML-P... prohibition signs	
Unlabeled prohibition signs, UniSheet material	326
Unlabeled prohibition signs, supplied in rolls	327
Preprinted prohibition signs	328
PML-M... mandatory signs	
Unlabeled mandatory signs, UniSheet material	334
Unlabeled mandatory signs, supplied in rolls	335
Preprinted mandatory signs	336
PML-T... pipeline signs	
Unlabeled pipeline signs, supplied in rolls	342
PML-GHS... hazardous substances labels	
Unlabeled hazardous substances labels, UniSheet material	348
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Preprinted hazardous substances labels	350
US-EMLF... combi labels	
Unlabeled combi labels, UniSheet material	354
PMM... magnetic labels	
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Ordering example for labeling service - printed for you	
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System marking



Unambiguous marking of systems helps to avoid operating errors and is therefore a key component of occupational safety. Information and safety signs also provide important information on site, making it easier to maintain systems.

Phoenix Contact offers a wide range of labels which meet the legal requirements for correct system marking. Depending on the type, they can be labeled using the THERMOMARK LINE thermal transfer printers. The labels are characterized by a high level of wipe and scratch resistance.

Multicolored symbol signs can be custom-designed using the THERMOMARK CARD PLUS.

Please contact us if you are unable to find a suitable size or color for your application from the options available in our product range. It goes without saying that Phoenix Contact also offers a comprehensive labeling service for system marking applications. Test us out!

**PML-W warning labels**

Warning labels are used to identify danger areas in systems and workshops. The unlabeled warning labels allow you to create custom warning instructions.

**PML-P prohibition signs**

Prohibition signs prohibit potentially dangerous activities. They are therefore a key component of occupational health and safety.

**PML-M mandatory signs**

Mandatory signs prescribe a certain mode of behavior and are used to prevent accidents in the workplace.

**PML-T pipeline signs**

Pipeline markers are used to indicate fluids or gases. By removing the arrowhead that is not required, the direction of flow can also be defined.

**PML-GHS hazardous substances labels**

Hazardous substances labels are used for the additional marking of the pipeline markers if hazardous substances according to the Ordinance on Hazardous Substances (GefStoffV) are transported through the pipelines.

**PMM magnetic labels**

Magnetic labels provide a flexible solution if you do not wish to apply permanent marking. If required, they can be quickly attached to metallic surfaces and removed just as easily.

Marking and labeling - MARKING system

System marking

UniSheet - stick-on warning labels, unlabeled



Can be printed with:



Thermal transfer for sheets
and cards



N

The unlabeled US-PML warning labels allow you to create custom warning instructions. A variety of symbols are available in the CLIP PROJECT software. The warning labels offer the following features:

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The warning labels conform to the ISO 7010 international standard
- The format automatically ensures printing with a high degree of positioning accuracy
- Labeling service: Phoenix Contact can custom-label all US-PML ... warning labels according to your requirements

Notes:

¹⁾ For ordering example, see page 359.

General data

Can be printed with:

Material
Temperature range
Wipe resistance
Components

[°C]

THERMOMARK CARD PLUS • THERMOMARK CARD
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Technical data

Description

Type

Order No.

Pcs. / Pkt.

UniSheet, with self-adhesive warning labels, triangular

24-section, side length: 25 mm
6-section, side length: 50 mm
1-section, side length: 100 mm

Color

yellow
yellow
yellow

US-PML-W100 (25X25)
US-PML-W100 (50X50)
US-PML-W100 (100X100)

1014125
1014126
1014127

10
10
10

UniSheet, with self-adhesive warning labels, triangular with additional rectangular lettering field

16-section, side length: 25 mm
4-section, side length: 50 mm
1-section, side length: 100 mm

yellow
yellow
yellow

US-PML-W200 (25X25)
US-PML-W200 (50X50)
US-PML-W200 (100X100)

1014131
1014132
1014133

10
10
10

UniSheet, with self-adhesive warning labels, triangular, labeled according to customer specifications¹⁾

24-section, side length: 25 mm
6-section, side length: 50 mm
1-section, side length: 100 mm

yellow
yellow
yellow

US-PML-W100 (25X25) CUS
US-PML-W100 (50X50) CUS
US-PML-W100 (100X100) CUS

1014128
1014129
1014130

1
1
1

UniSheet, with self-adhesive warning labels, triangular with additional rectangular lettering field, labeled according to customer specifications¹⁾

16-section, side length: 25 mm
4-section, side length: 50 mm
1-section, side length: 100 mm

yellow
yellow
yellow

US-PML-W200 (25X25) CUS
US-PML-W200 (50X50) CUS
US-PML-W200 (100X100) CUS

1014134
1014135
1014136

1
1
1

Accessories

Magazine, for THERMOMARK CARD.... for accommodating all US-... materials

THERMOMARK CARD-US-MAG1

5146451

1

Stick-on warning labels, unlabeled

Can be printed with:



Thermal transfer for rolls



Unlabeled or labeled according to customer specifications

The unlabeled PML warning labels allow you to create custom warning instructions. A variety of symbols are available in the CLIP PROJECT software. The warning labels offer the following features:

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The special packaging protects rolls that have already been started from the dirt found in industrial environments
- The warning labels conform to the ISO 7010 international standard
- Labeling service: Phoenix Contact can custom-label all PML ... warning labels according to your requirements

Notes:¹⁾ For ordering example, see page 359.**General data**

Can be printed with:

Material	[°C]
Temperature range	
Wipe resistance	

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Technical data

Description	Color	Type	Order No.	Pcs. / Pkt.
Warning label, triangular 500 labels per roll, side length: 25 mm	yellow	PML-W100 (25X25)R	0830429	1
500 labels per roll, side length: 50 mm	yellow	PML-W100 (50X50)R	0830430	1
250 labels per roll, side length: 100 mm	yellow	PML-W100 (100X100)R	0830431	1
Warning label, triangular, additional rectangular lettering field 500 labels per roll, side length: 25 mm	yellow	PML-W200 (25X25)R	0830451	1
500 labels per roll, side length: 50 mm	yellow	PML-W200 (50X50)R	0830452	1
250 labels per roll, side length: 100 mm	yellow	PML-W200 (100X100)R	0830453	1
Warning label, rectangular 500 labels per roll, width: 52 mm, height: 26 mm	yellow	PML-W300 (52X26)R	0830458	1
500 labels per roll, width: 74 mm, height: 37 mm	yellow	PML-W300 (74X37)R	0830459	1
250 labels per roll, width: 105 mm, height: 52 mm	yellow	PML-W300 (105X52)R	0830460	1
Warning label, triangular, labeled according to customer specifications¹⁾ 3 labels per strip, side length: 25 mm	yellow	PML-W100 (25X25)R CUS	0830493	1
1 label per strip, side length: 50 mm	yellow	PML-W100 (50X50)R CUS	0830494	1
1 label per strip, side length: 100 mm	yellow	PML-W100 (100X100)R CUS	0830495	1
Warning label, triangular, additional rectangular lettering field, labeled according to customer specifications¹⁾ 3 labels per strip, side length: 25 mm	yellow	PML-W200 (25X25)R CUS	0830496	1
1 label per strip, side length: 50 mm	yellow	PML-W200 (50X50)R CUS	0830497	1
1 label per strip, side length: 100 mm	yellow	PML-W200 (100X100)R CUS	0830498	1
Warning label, rectangular, labeled according to customer specifications¹⁾ 1 label per strip, width: 52 mm, height: 26 mm	yellow	PML-W300 (52X26)R CUS	0830499	1
1 label per strip, width: 74 mm, height: 37 mm	yellow	PML-W300 (74X37)R CUS	0830500	1
1 label per strip, width: 105 mm, height: 52 mm	yellow	PML-W300 (105X52)R CUS	0830501	1

Marking and labeling - MARKING system

System marking

Stick-on warning labels, triangular with lightning flash



The PML warning labels are available with various warning instructions. The warning labels offer the following features:

- Printed cards
- Suitable for indoor and outdoor use
- The warning labels conform to the ISO 7010 international standard



Technical data

General data

Material	PVC
Temperature range	-40 ... 90
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Warning label, triangular, with lightning flash 25 labels per sheet, side length: 25 mm	yellow	PML-W101 (25X25)	0830433	5
9 labels per sheet, side length: 50 mm	yellow	PML-W101 (50X50)	0830434	5
9 labels per sheet, side length: 100 mm	yellow	PML-W101 (100X100)	0830435	5
1 label per sheet, side length: 200 mm	yellow	PML-W101 (200X200)	0830436	5

**Stick-on warning labels, triangular
with lightning flash and
details of voltage**

- Printed cards
- Suitable for indoor and outdoor use
- The warning labels conform to the ISO 7010 international standard



		Technical data		Technical data	
General data					
Material	PVC			PVC	
Temperature range	[°C]	-40 ... 90		-40 ... 90	
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		DIN EN 61010-1 (VDE 0411-1)	
Components		Silicone-free		Silicone-free	
		Ordering data		Ordering data	
Description	Color	Type	Order No.	Pcs. / Pkt.	Type
Warning label , triangular with lightning flash, additional rectangular lettering field, printed text: "Spannung Voltage"					
16 labels per sheet, side length: 25 mm	yellow	PML-W201 (25X25)	0830454	5	PML-W202 (25X25)
4 labels per sheet, side length: 50 mm	yellow	PML-W201 (50X50)	0830455	5	PML-W202 (50X50)
4 labels per sheet, side length: 100 mm	yellow	PML-W201 (100X100)	0830456	5	PML-W202 (100X100)
1 label per sheet, side length: 200 mm	yellow	PML-W201 (200X200)	0830457	5	PML-W202 (200X200)
Warning label , triangular, with lightning flash, additional rectangular lettering field, printed text: 230 V					
16 labels per sheet, side length: 25 mm	yellow				PML-W203 (25X25)
4 labels per sheet, side length: 50 mm	yellow				PML-W203 (50X50)
4 labels per sheet, side length: 100 mm	yellow				PML-W203 (100X100)
1 label per sheet, side length: 200 mm	yellow				PML-W203 (200X200)
Warning label , triangular, additional rectangular lettering field, printed items: lightning flash and 400 V					
16 labels per sheet, side length: 25 mm	yellow				PML-W203 (25X25)
4 labels per sheet, side length: 50 mm	yellow				PML-W203 (50X50)
4 labels per sheet, side length: 100 mm	yellow				PML-W203 (100X100)
1 label per sheet, side length: 200 mm	yellow				PML-W203 (200X200)
Warning label , triangular, additional rectangular lettering field, printed items: lightning flash and 120 V					
4 labels per sheet, side length: 50 mm	yellow				PML-W204 (50X50)
4 labels per sheet, side length: 100 mm	yellow				PML-W204 (100X100)
1 label per sheet, side length: 200 mm	yellow				PML-W204 (200X200)
Warning label , triangular, additional rectangular lettering field, printed items: lightning flash and 240 V					
4 labels per sheet, side length: 50 mm	yellow				PML-W205 (50X50)
4 labels per sheet, side length: 100 mm	yellow				PML-W205 (100X100)
1 label per sheet, side length: 200 mm	yellow				PML-W205 (200X200)

Marking and labeling - MARKING system

System marking

Stick-on warning labels, with lightning flash and warning instruction

- Printed cards
- Suitable for indoor and outdoor use



Technical data				
Ordering data				
Description	Color	Type	Order No.	Pcs. / Pkt.
Warning label , rectangular, with lightning flash, printed text in German/English: "Danger! High voltage when main switch is off"				
4 labels per sheet, W x H: 52 x 26 mm	yellow	PML-W301 (52X26)	0830461	5
3 labels per sheet, W x H: 74 x 37 mm	yellow	PML-W301 (74X37)	0830462	5
4 labels per sheet, W x H: 105 x 52 mm	yellow	PML-W301 (105X52)	0830463	5
2 labels per sheet, W x H: 200 x 100 mm	yellow	PML-W301 (200X100)	0830464	5
Warning label , rectangular, printed text in German: "Achtung! Vor Öffnen des Gehäuses Netzstecker ziehen!"				
27 labels per sheet, W x H: 52 x 26 mm	yellow			
12 labels per sheet, W x H: 74 x 37 mm	yellow			
4 labels per sheet, W x H: 105 x 52 mm	yellow			
2 labels per sheet, W x H: 200 x 100 mm	yellow			
Warning label , rectangular, with lightning flash, printed text in English: "Caution! Before opening housing, turn off main power switch!"				
27 labels per sheet, W x H: 52 x 26 mm	yellow			
12 labels per sheet, W x H: 74 x 37 mm	yellow			
4 labels per sheet, W x H: 105 x 52 mm	yellow			
2 labels per sheet, W x H: 200 x 100 mm	yellow			
Warning label , rectangular, printed text in German: "Achtung! Vor Öffnen des Gehäuses Hauptschalter ausschalten!"				
27 labels per sheet, W x H: 52 x 26 mm	yellow			
12 labels per sheet, W x H: 74 x 37 mm	yellow			
4 labels per sheet, W x H: 105 x 52 mm	yellow			
2 labels per sheet, W x H: 200 x 100 mm	yellow			
Warning label , rectangular, with lightning flash, printed text in English: "Caution! Before opening housing, pull main plug!"				
27 labels per sheet, W x H: 52 x 26 mm	yellow			
12 labels per sheet, W x H: 74 x 37 mm	yellow			
4 labels per sheet, W x H: 105 x 52 mm	yellow			
2 labels per sheet, W x H: 200 x 100 mm	yellow			



Technical data

PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data

Type	Order No.	Pcs. / Pkt.
PML-W302 (52X26)	0830465	5
PML-W302 (74X37)	0830466	5
PML-W302 (105X52)	0830467	5
PML-W302 (200X100)	0830468	5
PML-W303 (52X26)	0830469	5
PML-W303 (74X37)	0830470	5
PML-W303 (105X52)	0830471	5
PML-W303 (200X100)	0830472	5
PML-W304 (52X26)	0830473	5
PML-W304 (74X37)	0830474	5
PML-W304 (105X52)	0830475	5
PML-W304 (200X100)	0830476	5
PML-W305 (52X26)	0830477	5
PML-W305 (74X37)	0830478	5
PML-W305 (105X52)	0830479	5
PML-W305 (200X100)	0830480	5

Marking and labeling - MARKING system

System marking

UniSheet - stick-on prohibition signs, color preprinted without symbols



Notes:
For accessories, visit www.phoenixcontact.net/products .
¹⁾ For ordering example, see page 359.

PRINTED
FOR YOU



Unlabeled or labeled according to customer specifications

Technical data

General data

Can be printed with:
Material
Temperature range
Wipe resistance
Components

THERMOMARK CARD PLUS • THERMOMARK CARD
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

- The color preprinted US PML-P prohibition signs on US cards allow you to create custom prohibition notices
- A variety of symbols are available in the CLIP PROJECT software

Prohibition sign, color preprinted, without symbols

Description	Color	Type	Order No.	Pcs. / Pkt.
4-section, diameter: 50 mm 1-section, diameter: 100 mm	red/white red/white	US-PML-P100 (D50) US-PML-P100 (D100)	1014217 1014218	10 10
Prohibition sign, color preprinted, without symbols, labeled according to customer specifications ¹⁾				

Description	Color	Type	Order No.	Pcs. / Pkt.
4-section, diameter: 50 mm 1-section, diameter: 100 mm	red/white red/white	US-PML-P100 (D50) CUS US-PML-P100 (D100) CUS	1014219 1014220	1 1
Prohibition sign, unprinted, labeled according to customer specifications ¹⁾				

UniSheet - stick-on prohibition sign, unprinted



Notes:

For the matching ink ribbon (1014403) and magazine (5146451), for THERMOMARK CARD, for accommodating all US materials, see page 348.

¹⁾ For ordering example, see page 359.

PRINTED
FOR YOU



Unlabeled or labeled according to customer specifications

Technical data

General data

Can be printed with:
Material
Temperature range
Wipe resistance
Components

THERMOMARK CARD PLUS
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

- The unlabeled PML prohibition signs allow you to create custom prohibition notices in color with the THERMOMARK CARD PLUS
- A variety of symbols are available in the CLIP PROJECT software

Prohibition sign, unprinted

Description	Color	Type	Order No.	Pcs. / Pkt.
4-section, diameter: 50 mm 1-section, diameter: 100 mm	white white	US-PML-P200 (D50) US-PML-P200 (D100)	1014221 1014222	10 10
Prohibition sign, unprinted, labeled according to customer specifications ¹⁾				

Description	Color	Type	Order No.	Pcs. / Pkt.
4-section, diameter: 50 mm 1-section, diameter: 100 mm	white white	US-PML-P200 (D50) CUS US-PML-P200 (D100) CUS	1014223 1014224	1 1
Prohibition sign, unprinted, labeled according to customer specifications ¹⁾				

Stick-on prohibition signs, color preprinted, without symbols



The color preprinted PML-P prohibition signs on a roll allow you to create custom prohibition notices. A variety of symbols are available in the CLIP PROJECT software. The prohibition signs offer the following features:

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The prohibition signs conform to the ISO 7010 international standard
- The format automatically ensures printing with a high level of positional accuracy
- The special packaging protects rolls that have already been started from the dirt found in industrial environments
- Labeling service: Phoenix Contact can custom-label all PML ... markers according to your requirements

Notes:
¹⁾ For ordering example, see page 359.

PRINTED
FOR YOU



Unlabeled or labeled according to customer specifications

Technical data

General data

Can be printed with:

Material	
Temperature range	[°C]
Wipe resistance	-40 ... 90
Components	DIN EN 61010-1 (VDE 0411-1)

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMO-MARK X1.1 • THERMOMARK X1.2
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Prohibition sign, color preprinted, without symbols				
500 labels per roll, diameter: 50 mm	red/white	PML-P100 (D50)R	1014225	1
250 labels per roll, diameter: 100 mm	red/white	PML-P100 (D100)R	1014226	1
Prohibition sign, color preprinted, without symbols, labeled according to customer specifications¹⁾				
1 label per strip, diameter: 50 mm	red/white	PML-P100 (D50)R CUS	1014227	1
1 label per strip, diameter: 100 mm	red/white	PML-P100 (D100)R CUS	1014228	1

System marking

Stick-on prohibition signs, preprinted with symbols

N



The PML-P... prohibition signs are available with various symbols. The prohibition signs offer the following features:

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The mandatory signs conform to the ISO 7010 international standard



Symbol - No smoking

Technical data				
Ordering data				
Description	Color	Type	Order No.	Pcs. / Pkt.
Prohibition sign, preprinted with "No smoking" symbol				
3-section, diameter: 50 mm	red/white	PML-P101 (D50)	1014184	5
3-section, diameter: 100 mm	red/white	PML-P101 (D100)	1014185	5
1-section, diameter: 200 mm	red/white	PML-P101 (D200)	1014186	5
Prohibition sign, preprinted with "Do not connect" symbol				
3-section, diameter: 50 mm	red/white			
3-section, diameter: 100 mm	red/white			
1-section, diameter: 200 mm	red/white			
Prohibition sign, preprinted with "Forbidden for persons with pacemakers" symbol				
3-section, diameter: 50 mm	red/white			
3-section, diameter: 100 mm	red/white			
1-section, diameter: 200 mm	red/white			
Prohibition sign, preprinted with "Do not touch" symbol				
3-section, diameter: 50 mm	red/white			
3-section, diameter: 100 mm	red/white			
1-section, diameter: 200 mm	red/white			

N



Symbol - Do not connect

N



Symbol - Forbidden for persons with pacemakers

N



Symbol - Do not touch

Technical data			Technical data			Technical data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free			PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free			PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free		
PML-P102 (D50) PML-P102 (D100) PML-P102 (D200)	1014187 1014188 1014189	5 5 5	PML-P103 (D50) PML-P103 (D100) PML-P103 (D200)	1014190 1014191 1014192	5 5 5	PML-P104 (D50) PML-P104 (D100) PML-P104 (D200)	1014193 1014194 1014195	5 5 5

Marking and labeling - MARKING system

System marking

Stick-on prohibition signs, preprinted with symbols

- Printed cards
- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The mandatory signs conform to the ISO 7010 international standard

N



Symbol - Do not walk here

N



Symbol - No fire, naked lights or smoking

General data		Technical data		Technical data			
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Prohibition sign , preprinted with "Do not walk here" symbol							
3-section, diameter: 50 mm	red/white	PML-P105 (D50)	1014196	5			
3-section, diameter: 100 mm	red/white	PML-P105 (D100)	1014197	5			
1-section, diameter: 200 mm	red/white	PML-P105 (D200)	1014198	5			
Prohibition sign , preprinted with "No fire, naked lights or smoking" symbol					PML-P106 (D50)	1014199	5
3-section, diameter: 50 mm	red/white				PML-P106 (D100)	1014200	5
3-section, diameter: 100 mm	red/white				PML-P106 (D200)	1014201	5
1-section, diameter: 200 mm	red/white						
Prohibition sign , preprinted with "Do not reach in" symbol							
3-section, diameter: 50 mm	red/white						
3-section, diameter: 100 mm	red/white						
1-section, diameter: 200 mm	red/white						
Prohibition sign , preprinted with "Do not extinguish with water" symbol							
3-section, diameter: 50 mm	red/white						
3-section, diameter: 100 mm	red/white						
1-section, diameter: 200 mm	red/white						
Prohibition sign , preprinted with "No mobile phones" symbol							
3-section, diameter: 50 mm	red/white						
3-section, diameter: 100 mm	red/white						
1-section, diameter: 200 mm	red/white						

N



Symbol - Do not reach in

N



Symbol - Do not extinguish with water

N



Symbol - No mobile phones

Technical data			Technical data			Technical data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free			PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free			PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free		
PML-P107 (D50) PML-P107 (D100) PML-P107 (D200)	1014202 1014203 1014204	5 5 5	PML-P108 (D50) PML-P108 (D100) PML-P108 (D200)	1014205 1014206 1014207	5 5 5	PML-P109 (D50) PML-P109 (D100) PML-P109 (D200)	1014208 1014209 1014210	5 5 5

System marking

Stick-on prohibition signs, preprinted with symbols

N

- Printed cards
- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The mandatory signs conform to the ISO 7010 international standard



Symbol - No food

Technical data				
General data		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
Prohibition sign, preprinted with "No food" symbol				
3-section, diameter: 50 mm	red/white	PML-P110 (D50)	1014211	5
3-section, diameter: 100 mm	red/white	PML-P110 (D100)	1014212	5
1-section, diameter: 200 mm	red/white	PML-P110 (D200)	1014213	5
Prohibition sign, preprinted with "No access for unauthorized persons" symbol				
3-section, diameter: 50 mm	red/white			
3-section, diameter: 100 mm	red/white			
1-section, diameter: 200 mm	red/white			

N

Symbol - No access for unauthorized persons

Technical data

PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data

Type	Order No.	Pcs. / Pkt.
PML-P111 (D50)	1014214	5
PML-P111 (D100)	1014215	5
PML-P111 (D200)	1014216	5

Marking and labeling - MARKING system

System marking

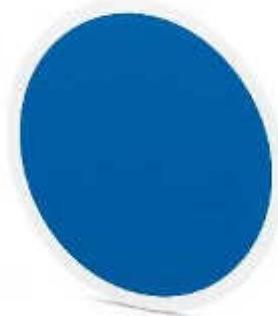
UniSheet - stick-on mandatory signs, color preprinted, without symbols



Can be printed with:



Thermal transfer for sheets and cards



Unlabeled or labeled according to customer specifications

N

The unlabeled US-PML-M mandatory signs on US cards allow you to create custom information signs. A variety of symbols are available in the CLIP PROJECT software. The mandatory signs offer the following features:

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The mandatory signs conform to the ISO 7010 international standard
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The format automatically ensures printing with a high level of positional accuracy
- The perforated markers are easy to separate
- Labeling service: Phoenix Contact can custom-label all US-PML ... markers according to your requirements

General data

Can be printed with:

Material
Temperature range
Wipe resistance
Components

THERMOMARK CARD PLUS • THERMOMARK CARD
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

[°C]

Technical data

Description

Color

Type

Order No.

Pcs. / Pkt.

Mandatory sign, color preprinted, without symbols

4-section, diameter: 50 mm
1-section, diameter: 100 mm

blue

blue

US-PML-M100 (D50)
US-PML-M100 (D100)

1014176

1014177

10

10

Mandatory sign, unprinted, labeled according to customer specifications¹⁾

4-section, diameter: 50 mm
1-section, diameter: 100 mm

blue

blue

US-PML-M100 (D50) CUS
US-PML-M100 (D100) CUS

1014178

1014179

1

1

Accessories

Magazine, for THERMOMARK CARD..., for accommodating all US-... materials

THERMOMARK CARD-US-MAG1

5146451

1

Ink ribbon, length: 300 m, width: 110 mm

white

TM-RIBBON 110-TC/TR WH

1014402

1

Notes:

¹⁾ For ordering example, see page 359.

**Stick-on mandatory signs,
color preprinted, without symbols**


The color preprinted PML-M mandatory signs on a roll allow you to create custom mandatory notices. A variety of symbols are available in the CLIP PROJECT software.

The mandatory signs offer the following features:

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The mandatory signs conform to the ISO 7010 international standard
- The format automatically ensures printing with a high level of positional accuracy
- The special packaging protects rolls that have already been started from the dirt found in industrial environments
- Labeling service: Phoenix Contact can custom-label all markers according to your requirements

Notes:

¹⁾ For ordering example, see page 359.

Can be printed with:



Thermal transfer for rolls



Unlabeled or labeled according to customer specifications

Technical data
General data

Can be printed with:

Material
Temperature range
Wipe resistance
Components

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMO-MARK X1.1 • THERMOMARK X1.2
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Mandatory sign, color preprinted, without symbols				
500 labels per roll, diameter: 50 mm	blue	PML-M100 (D50)R	1014180	1
250 labels per roll, diameter: 100 mm	blue	PML-M100 (D100)R	1014181	1
Mandatory sign, color preprinted, without symbols, labeled according to customer specifications¹⁾				
1 label per strip, diameter: 50 mm	blue	PML-M100 (D50)R CUS	1014182	1
1 label per strip, diameter: 100 mm	blue	PML-M100 (D100)R CUS	1014183	1

Accessories

Ink ribbon, length: 300 m, width: 110 mm	white	TM-RIBBON 110-TC/TR WH	1014402	1
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System marking

Stick-on mandatory signs, preprinted, with symbols

N



The PML-M mandatory signs are available with various symbols. The mandatory signs offer the following features:

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The mandatory signs conform to the ISO 7010 international standard



Symbol - General mandatory action symbol

Technical data				
Ordering data				
Description	Color	Type	Order No.	Pcs. / Pkt.
Mandatory sign , preprinted with "General mandatory action symbol" 3-section, diameter: 50 mm 3-section, diameter: 100 mm 1-section, diameter: 200 mm	blue blue blue	PML-M101 (D50) PML-M101 (D100) PML-M101 (D200)	1014137 1014138 1014139	5 5 5
Mandatory sign , preprinted with "Wear safety goggles" symbol 3-section, diameter: 50 mm 3-section, diameter: 100 mm 1-section, diameter: 200 mm	blue blue blue			
Mandatory sign , preprinted with "Observe instructions for use" symbol 3-section, diameter: 50 mm 3-section, diameter: 100 mm 1-section, diameter: 200 mm	blue blue blue			
Mandatory sign , preprinted with "Wear ear protectors" symbol 3-section, diameter: 50 mm 3-section, diameter: 100 mm 1-section, diameter: 200 mm	blue blue blue			

N

Symbol - Wear safety goggles

N

Symbol - Observe instructions for use

N

Symbol - Wear ear protectors

Technical data			Technical data			Technical data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free			PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free			PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free		
PML-M102 (D50) PML-M102 (D100) PML-M102 (D200)	1014140 1014141 1014142	5 5 5	PML-M103 (D50) PML-M103 (D100) PML-M103 (D200)	1014143 1014144 1014145	5 5 5	PML-M104 (D50) PML-M104 (D100) PML-M104 (D200)	1014146 1014147 1014148	5 5 5

Marking and labeling - MARKING system

System marking

Stick-on mandatory signs, preprinted, with symbols

N

N

Printed cards

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The mandatory signs conform to the ISO 7010 international standard



Symbol - Wear face shield



Symbol - Wear safety helmet

General data		Technical data		Technical data			
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Mandatory sign , preprinted with "Wear face shield" symbol							
3-section, diameter: 50 mm	blue	PML-M105 (D50)	1014149	5			
3-section, diameter: 100 mm	blue	PML-M105 (D100)	1014150	5			
1-section, diameter: 200 mm	blue	PML-M105 (D200)	1014151	5			
Mandatory sign , preprinted with "Wear safety helmet" symbol							
3-section, diameter: 50 mm	blue				PML-M106 (D50)	1014152	5
3-section, diameter: 100 mm	blue				PML-M106 (D100)	1014153	5
1-section, diameter: 200 mm	blue				PML-M106 (D200)	1014154	5
Mandatory sign , preprinted with "Use face mask" symbol							
3-section, diameter: 50 mm	blue						
3-section, diameter: 100 mm	blue						
1-section, diameter: 200 mm	blue						
Mandatory sign , preprinted with "Wear protective gloves" symbol							
3-section, diameter: 50 mm	blue						
3-section, diameter: 100 mm	blue						
1-section, diameter: 200 mm	blue						
Mandatory sign , preprinted with "Wear protective clothing" symbol							
3-section, diameter: 50 mm	blue						
3-section, diameter: 100 mm	blue						
1-section, diameter: 200 mm	blue						

N

Symbol - Use face mask

N

Symbol - Wear protective gloves

N

Symbol - Wear protective clothing

Technical data			Technical data			Technical data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free			PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free			PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free		
PML-M107 (D50) PML-M107 (D100) PML-M107 (D200)	1014155 1014156 1014157	5 5 5	PML-M108 (D50) PML-M108 (D100) PML-M108 (D200)	1014158 1014159 1014160	5 5 5	PML-M109 (D50) PML-M109 (D100) PML-M109 (D200)	1014161 1014162 1014163	5 5 5

Marking and labeling - MARKING system

System marking

Stick-on mandatory signs, preprinted, with symbols

N

N

Printed cards

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The mandatory signs conform to the ISO 7010 international standard



Symbol - Disconnect before starting work



Symbol - Wear conductive footwear

General data	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data		Technical data	
PVC		PVC	
-40 ... 90		-40 ... 90	
DIN EN 61010-1 (VDE 0411-1)		DIN EN 61010-1 (VDE 0411-1)	
Silicone-free		Silicone-free	

Description	Color
Mandatory sign , preprinted with "Disconnect before starting work" symbol	
3-section, diameter: 50 mm	blue
3-section, diameter: 100 mm	blue
1-section, diameter: 200 mm	blue
Mandatory sign , preprinted with "Wear conductive footwear" symbol	
3-section, diameter: 50 mm	blue
3-section, diameter: 100 mm	blue
1-section, diameter: 200 mm	blue
Mandatory sign , preprinted with "Wear head cover" symbol	
3-section, diameter: 50 mm	blue
3-section, diameter: 100 mm	blue
1-section, diameter: 200 mm	blue
Mandatory sign , preprinted with "Wear safety shoes" symbol	
3-section, diameter: 50 mm	blue
3-section, diameter: 100 mm	blue
1-section, diameter: 200 mm	blue

Ordering data		Ordering data	
Type	Order No.	Pcs. / Pkt.	Type
PML-M110 (D50)	1014164	5	PML-M111 (D50)
PML-M110 (D100)	1014165	5	PML-M111 (D100)
PML-M110 (D200)	1014166	5	PML-M111 (D200)
			1014167
			1014168
			1014169

N

Symbol - Wear head cover

N

Symbol - Wear safety shoes

Technical data		
----------------	--	--

PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data		
Type	Order No.	Pcs. / Pkt.

PML-M112 (D50)	1014170	5
PML-M112 (D100)	1014171	5
PML-M112 (D200)	1014172	5

Technical data		
----------------	--	--

PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data		
Type	Order No.	Pcs. / Pkt.

PML-M113 (D50)	1014173	5
PML-M113 (D100)	1014174	5
PML-M113 (D200)	1014175	5

System marking

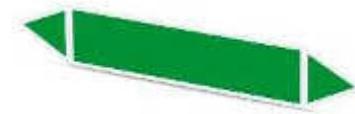
Stick-on pipeline markers, unlabeled

Can be printed with:

N



Thermal transfer for rolls



Group 1 (water)

The color preprinted PML-T... pipeline markers supplied in rolls enable the custom marking of pipelines according to DIN 2403.

The markers offer the following features:

- Finely perforated arrowheads enable the arrowheads which are not required to be easily removed
- High adhesive strength
- High temperature resistance
- Suitable for indoor and outdoor use
- In combination with the PML-GHS hazardous substances labels, marking which conforms to the Ordinance on Hazardous Substances (GefStoffV) can be applied
- The format automatically ensures printing with a high level of positional accuracy
- The special packaging protects rolls that have already been started from the dirt found in industrial environments
- Labeling service: Phoenix Contact can custom-label all markers according to your requirements

Notes:

¹⁾ For ordering example, see page 359.

General data

Can be printed with:

Material
Temperature range
Wipe resistance

[°C]

THERMOMARK ROLL • THERMOMARK ROLL X1 •
THERMOMARK X1.1 • THERMOMARK X1.2
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)

Technical data

Description

Color

Type

Order No.

Pcs. / Pkt.

Pipeline markers, green, group 1 (water), unprinted

250 labels per roll, marker size: 26 x 280 mm

green

PML-T101 (26X280)R

1014229

1

250 labels per roll, marker size: 52 x 560 mm

green

PML-T101 (52X560)R

1014230

1

Pipeline markers, red, group 2 (steam), unprinted

250 labels per roll, marker size: 26 x 280 mm

red

250 labels per roll, marker size: 52 x 560 mm

red

Pipeline markers, gray, group 3 (air), unprinted

250 labels per roll, marker size: 26 x 280 mm

gray

250 labels per roll, marker size: 52 x 560 mm

gray

Pipeline markers, yellow/red, group 4 (combustible gases), unprinted

250 labels per roll, marker size: 26 x 280 mm

yellow/red

250 labels per roll, marker size: 52 x 560 mm

yellow/red

Pipeline markers, green, group 1 (water), labeled according to customer specifications¹⁾

3 labels per strip, marker size: 26 x 280 mm

green

PML-T101 (26X280)R CUS

1014249

1

1 label per strip, marker size: 52 x 560 mm

green

PML-T101 (52X560)R CUS

1014250

1

Pipeline markers, red, group 2 (steam), labeled according to customer specifications¹⁾

3 labels per strip, marker size: 26 x 280 mm

red

1 label per strip, marker size: 52 x 560 mm

red

Pipeline markers, gray, group 3 (air), labeled according to customer specifications¹⁾

3 labels per strip, marker size: 26 x 280 mm

gray

1 label per strip, marker size: 52 x 560 mm

gray

Pipeline markers, yellow/red, group 4 (combustible gases), labeled according to customer specifications¹⁾

3 labels per strip, marker size: 26 x 280 mm

yellow/red

1 label per strip, marker size: 52 x 560 mm

yellow/red

N



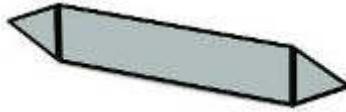
N



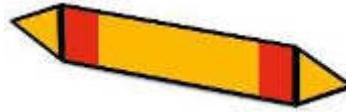
N



Group 2 (steam)



Group 3 (air)



Group 4 (combustible gases)

Technical data			Technical data			Technical data		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
PML-T102 (26X280)R	1014231	1						
PML-T102 (52X560)R	1014232	1						
			PML-T103 (26X280)R	1014233	1			
			PML-T103 (52X560)R	1014234	1			
						PML-T104 (26X280)R	1014235	1
						PML-T104 (52X560)R	1014236	1
PML-T102 (26X280)R CUS	1014251	1						
PML-T102 (52X560)R CUS	1014252	1						
			PML-T103 (26X280)R CUS	1014253	1			
			PML-T103 (52X560)R CUS	1014254	1			
						PML-T104 (26X280)R CUS	1014255	1
						PML-T104 (52X560)R CUS	1014256	1

Marking and labeling - MARKING system

System marking

Stick-on pipeline markers, unlabeled

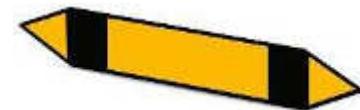
Can be printed with:

N

- Finely perforated arrowheads enable the arrowheads which are not required to be easily removed
- High adhesive strength
- High temperature resistance
- Suitable for indoor and outdoor use
- In combination with the PML-GHS hazardous substances labels, marking which conforms to the Ordinance on Hazardous Substances (GefStoffV) can be applied



Thermal transfer for rolls



Group 5 (non-combustible gases)

Technical data				
Ordering data				
Description	Color	Type	Order No.	Pcs. / Pkt.
Pipeline markers , yellow/black, group 5 (non-combustible gases), unprinted 250 labels per roll, marker size: 26 x 280 mm	yellow/black	PML-T105 (26X280)R	1014237	1
250 labels per roll, marker size: 52 x 560 mm	yellow/black	PML-T105 (52X560)R	1014238	1
Pipeline markers , orange, group 6 (acids), unprinted 250 labels per roll, marker size: 26 x 280 mm	orange			
250 labels per roll, marker size: 52 x 560 mm	orange			
Pipeline markers , violet, group 7 (alkalis), unprinted 250 labels per roll, marker size: 26 x 280 mm	violet			
250 labels per roll, marker size: 52 x 560 mm	violet			
Pipeline markers , brown/red, group 8 (combustible liquids), unprinted 250 labels per roll, marker size: 26 x 280 mm	brown/red			
250 labels per roll, marker size: 52 x 560 mm	brown/red			
Pipeline markers , yellow/black, group 5 (non-combustible gases), labeled according to customer specifications 3 labels per strip, marker size: 26 x 280 mm	yellow/black	PML-T105 (26X280)R CUS	1014257	1
1 label per strip, marker size: 52 x 560 mm	yellow/black	PML-T105 (52X560)R CUS	1014258	1
Pipeline markers , orange, group 6 (acids), labeled according to customer specifications 3 labels per strip, marker size: 26 x 280 mm	orange			
1 label per strip, marker size: 52 x 560 mm	orange			
Pipeline markers , violet, group 7 (alkalis), labeled according to customer specifications 3 labels per strip, marker size: 26 x 280 mm	violet			
1 label per strip, marker size: 52 x 560 mm	violet			
Pipeline markers , brown/red, group 8 (combustible liquids), labeled according to customer specifications 3 labels per strip, marker size: 26 x 280 mm	brown/red			
1 label per strip, marker size: 52 x 560 mm	brown/red			

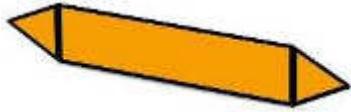
N

PRINTED
FOR YOUPRINTED
FOR YOU

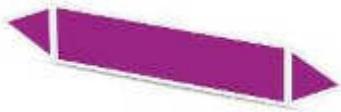
N

PRINTED
FOR YOU

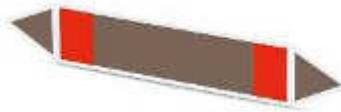
N



Group 6 (acids)



Group 7 (alkalis)



Group 8 (combustible liquids)

Technical data			Technical data			Technical data		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
PML-T106 (26X280)R	1014239	1						
PML-T106 (52X560)R	1014240	1						
			PML-T107 (26X280)R	1014241	1			
			PML-T107 (52X560)R	1014242	1			
						PML-T108 (26X280)R	1014243	1
						PML-T108 (52X560)R	1014244	1
PML-T106 (26X280)R CUS	1014259	1						
PML-T106 (52X560)R CUS	1014260	1						
			PML-T107 (26X280)R CUS	1014261	1			
			PML-T107 (52X560)R CUS	1014262	1			
						PML-T108 (26X280)R CUS	1014263	1
						PML-T108 (52X560)R CUS	1014264	1

Marking and labeling - MARKING system

System marking

Stick-on pipeline markers, unlabeled

Can be printed with:

N

- Finely perforated arrowheads enable the arrowheads which are not required to be easily removed
- High adhesive strength
- High temperature resistance
- Suitable for indoor and outdoor use
- In combination with the PML-GHS hazardous substances labels, marking which conforms to the Ordinance on Hazardous Substances (GefStoffV) can be applied



Thermal transfer for rolls



Group 9 (non-combustible liquids)

Notes:

1) For ordering example, see page 359.

General data

Can be printed with:

Material

Temperature range

Wipe resistance

THERMOMARK ROLL • THERMOMARK ROLL X1 •
THERMOMARK X1.1 • THERMOMARK X1.2

Polyester

-40 ... 150

DIN EN 61010-1 (VDE 0411-1)

Technical data

Description

Color

Pipeline markers, brown/black,
group 9 (non-combustible liquids), unprinted
250 labels per roll, marker size: 26 x 280 mm

brown/black

PML-T109 (26X280)R

1014245

1

250 labels per roll, marker size: 52 x 560 mm

brown/black

PML-T109 (52X560)R

1014246

1

Pipeline markers, blue, group 0 (oxygen), unprinted

250 labels per roll, marker size: 26 x 280 mm

blue

250 labels per roll, marker size: 52 x 560 mm

blue

Pipeline markers, brown/black, group 9 (non-combustible liquids), labeled according to customer specifications¹⁾

3 labels per strip, marker size: 26 x 280 mm

brown/black

PML-T109 (26X280)R CUS

1014265

1

1 label per strip, marker size: 52 x 560 mm

brown/black

PML-T109 (52X560)R CUS

1014266

1

Pipeline markers, blue, group 0 (oxygen), labeled according to customer specifications¹⁾

3 labels per strip, marker size: 26 x 280 mm

blue

1 label per strip, marker size: 52 x 560 mm

blue

N

PRINTED
FOR YOU

Group 0 (oxygen)

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 •

THERMOMARK X1.1 • THERMOMARK X1.2

Polyester

-40 ... 150

DIN EN 61010-1 (VDE 0411-1)

Ordering data

Type	Order No.	Pcs. / Pkt.
PML-T110 (26X280)R	1014247	1
PML-T110 (52X560)R	1014248	1
PML-T110 (26X280)R CUS	1014267	1
PML-T110 (52X560)R CUS	1014268	1

Marking and labeling - MARKING system

System marking

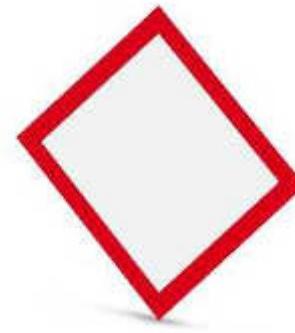
UniSheet - stick-on hazardous substances labels, color preprinted, without symbols



Can be printed with:



Thermal transfer for sheets and cards



Unlabeled

N

The unlabeled US-PML-GHS hazardous substances labels on US cards allow you to create custom information signs. A variety of symbols are available in the CLIP PROJECT software. The hazardous substances labels offer the following features:

- High adhesive strength
- High temperature resistance
- Suitable for indoor and outdoor use
- The markers conform to the GHS international standard
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The format automatically ensures printing with a high level of positional accuracy
- The perforated markers are easy to separate

General data

Can be printed with:

Material

Temperature range

Wipe resistance

[°C]

THERMOMARK CARD PLUS • THERMOMARK CARD

Polyester

-40 ... 150

DIN EN 61010-1 (VDE 0411-1)

Technical data

Description

Color

Hazardous substances label, color preprinted, without symbols

50-section, marker size: 13 x 13 mm

red/white

9-section, marker size: 25 x 25 mm

red/white

US-PML-GHS100 (13X13)

1014287

10

US-PML-GHS100 (25X25)

1014288

10

Ordering data

Type

Order No.

Pcs. / Pkt.

Magazine, for THERMOMARK CARD...,
for accommodating all US-... materials

THERMOMARK CARD-US-MAG1

5146451

1

Accessories

**Stick-on hazardous substances labels,
color preprinted, without symbols**

Can be printed with:

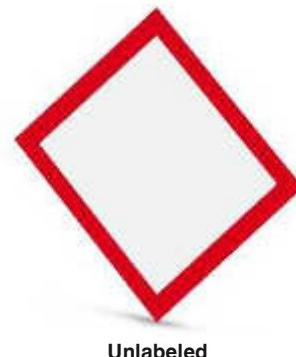


Thermal transfer for rolls



The color preprinted PML-GHS...R hazardous substances labels on a roll allow you to create custom information signs. A variety of symbols are available in the CLIP PROJECT software. The hazardous substances labels offer the following features:

- High adhesive strength
- High temperature resistance
- Suitable for indoor and outdoor use
- The markers conform to the GHS international standard
- The format automatically ensures printing with a high level of positional accuracy
- The special packaging protects rolls that have already been started from the dirt found in industrial environments



Unlabeled

Technical data

Can be printed with:

Material	
Temperature range	[°C]
Wipe resistance	

THERMOMARK ROLL • THERMOMARK ROLL X1 •
THERMOMARK X1.1 • THERMOMARK X1.2
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Hazardous substances label, color preprinted, without symbols				
500 labels per roll, marker size: 13 x 13 mm	red/white	PML-GHS100 (13X13)R	1014289	1
500 labels per roll, marker size: 25 x 25 mm	red/white	PML-GHS100 (25X25)R	1014290	1

System marking

Stick-on hazardous substances labels,
preprinted with symbol

N



The PML-GHS hazardous substances labels are available with various symbols and enable the additional custom marking of the PML-T pipeline markers according to the Ordinance on Hazardous Substances. The hazardous substances labels offer the following features:

- High adhesive strength
- High temperature resistance
- Suitable for indoor and outdoor use
- The hazardous substances labels conform to the GHS international standard



Symbol - Explosive

General data		Technical data		
Material		Polyester		
Temperature range	[°C]	-40 ... 150		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Hazardous substances label, preprinted with "Explosive" symbol		Ordering data		
35-section, marker size: 13 x 13 mm	red/white	PML-GHS101 (13X13)	1014269	5
12-section, marker size: 25 x 25 mm	red/white	PML-GHS101 (25X25)	1014270	5
Hazardous substances label, preprinted with "Flammable" symbol				
35-section, marker size: 13 x 13 mm	red/white			
12-section, marker size: 25 x 25 mm	red/white			
Hazardous substances label, preprinted with "Oxidizing" symbol				
35-section, marker size: 13 x 13 mm	red/white			
12-section, marker size: 25 x 25 mm	red/white			
Hazardous substances label, preprinted with "Pressurized gases" symbol				
35-section, marker size: 13 x 13 mm	red/white			
12-section, marker size: 25 x 25 mm	red/white			



Symbol - Flammable



Symbol - Oxidizing



Symbol - Pressurized gases

Technical data			Technical data			Technical data		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
PML-GHS102 (13X13) PML-GHS102 (25X25)	1014271 1014272	5 5	PML-GHS103 (13X13) PML-GHS103 (25X25)	1014273 1014274	5 5	PML-GHS104 (13X13) PML-GHS104 (25X25)	1014275 1014276	5 5

Marking and labeling - MARKING system

System marking

Stick-on hazardous substances labels, preprinted with symbol

N

N

- Printed cards
- High adhesive strength
- High temperature resistance
- Suitable for indoor and outdoor use
- The hazardous substances labels conform to the GHS international standard



Symbol - Corrosivity



Symbol - Toxic

General data		Technical data			Technical data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Hazardous substances label, preprinted with "Corrosivity" symbol							
35-section, marker size: 13 x 13 mm	red/white	PML-GHS105 (13X13)	1014277	5	PML-GHS106 (13X13)	1014279	5
12-section, marker size: 25 x 25 mm	red/white	PML-GHS105 (25X25)	1014278	5	PML-GHS106 (25X25)	1014280	5
Hazardous substances label, preprinted with "Toxic" symbol							
35-section, marker size: 13 x 13 mm	red/white						
12-section, marker size: 25 x 25 mm	red/white						
Hazardous substances label, preprinted with "General symbol for hazardous substances"							
35-section, marker size: 13 x 13 mm	red/white						
12-section, marker size: 25 x 25 mm	red/white						
Hazardous substances label, preprinted with "Hazardous to health" symbol							
35-section, marker size: 13 x 13 mm	red/white						
12-section, marker size: 25 x 25 mm	red/white						
Hazardous substances label, preprinted with "Hazardous to the environment" symbol							
35-section, marker size: 13 x 13 mm	red/white						
12-section, marker size: 25 x 25 mm	red/white						



Symbol - General symbol for hazardous substances



Symbol - Hazardous to health



Symbol - Hazardous to the environment

Technical data			Technical data			Technical data		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)			Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)			Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)		
PML-GHS107 (13X13) PML-GHS107 (25X25)	1014281 1014282	5 5	PML-GHS108 (13X13) PML-GHS108 (25X25)	1014283 1014284	5 5	PML-GHS109 (13X13) PML-GHS109 (25X25)	1014285 1014286	5 5

Marking and labeling - MARKING system

System marking

**UniSheet - stick-on combi labels,
unprinted**

Can be printed with:

N



Thermal transfer for sheets
and cards



Unlabeled

The unlabeled US-EMLF ... combi labels on US ... cards allow you to create custom information signs. A variety of symbols which conform to ISO 7010 are available in the CLIP PROJECT software. The markers offer the following features:

- High adhesive strength
- Suitable for indoor and outdoor use
- The markers conform to the ISO 7010 international standard
- The markers can be printed in various colors with the THERMOMARK CARD PLUS
- When used in conjunction with high-quality ink ribbons, a resistant form of labeling is produced, which is even suitable for harsh environments
- The markers, which are supplied in uniform sheets, can be labeled quickly, easily, and cost-effectively using the THERMOMARK CARD PLUS
- The format automatically ensures printing with a high level of positional accuracy
- The perforated markers are easy to separate

General data

Can be printed with:

Material
Temperature range
Wipe resistance
Components

[°C]

THERMOMARK CARD PLUS • THERMOMARK CARD
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Technical data

Description

Color

Type

Order No.

Pcs. / Pkt.

UniSheet, with self-adhesive labels, 2-section,
lettering field size: 104 x 70 mm

white
yellow
blue

US-EMLF (104X70)
US-EMLF (104X70) YE
US-EMLF (104X70) BU

1014294
1014295
1014296

10
10
10

UniSheet, with self-adhesive labels, 1-section,
lettering field size: 104 x 140 mm

white
yellow
blue

US-EMLF (104X140)
US-EMLF (104X140) YE
US-EMLF (104X140) BU

1014291
1014292
1014293

10
10
10

Accessories

Magazine, for THERMOMARK CARD...,
for accommodating all US-... materials

THERMOMARK CARD-US-MAG1

5146451

1

Segmented ink ribbon, length: 60 m, width: 110 mm

two segments in colors
three segments in colors

black/red
black/red/yellow

TM-RIBBON 110-TC BK/RD
TM-RIBBON 110-TC BK/RD/YE

1014403
1014404

1
1

four segments in colors

black/red/blue/
yellow

TM-RIBBON 110-TC BK/RD/BU/YE

1014405

1



**UniSheet - stick-on combi labels,
unprinted**

- All US-EMLF ... markers can also be supplied labeled according to customer requirements

Notes:

For matching label frames, see page 296.

¹⁾ For ordering example, see page 359.


Labeled according to customer specifications

Technical data				
General data		Technical data		
Material	PVC			
Temperature range	[°C]	-40 ... 90		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Silicone-free		
Ordering data				
Description	Color	Type	Order No.	Pcs. / Pkt.
UniSheet, with self-adhesive labels, labeled according to customer specifications, 2-section, lettering field size: 104 x 70 mm¹⁾				
	white	US-EMLF (104X70) CUS	1014300	1
	yellow	US-EMLF (104X70) YE CUS	1014301	1
	blue	US-EMLF (104X70) BU CUS	1014302	1
UniSheet, with self-adhesive labels, labeled according to customer specifications, 1-section, lettering field size: 104 x 140 mm¹⁾				
	white	US-EMLF (104X140) CUS	1014297	1
	yellow	US-EMLF (104X140) YE CUS	1014298	1
	blue	US-EMLF (104X140) BU CUS	1014299	1

Marking and labeling - MARKING system

System marking

Magnetic labels, unprinted

Can be printed with:



Thermal transfer for rolls



Unlabeled

N

The PMM magnetic labels supplied in rolls represent an individual and flexible marking solution, e.g., for stock labeling. A variety of symbols, linear and 2D codes are available in the CLIP PROJECT software. The magnetic labels offer the following features:

- High adhesive strength
- Magnetic tape coated with polyester foil
- The flexible magnetic tape will also adhere to round objects with a radius of 12 mm and higher
- The format automatically ensures printing with a high level of positional accuracy
- When used in conjunction with high-quality ink ribbons, a resistant form of labeling is produced, which is even suitable for harsh environments
- The special packaging protects rolls that have already been started from the dirt found in industrial environments
- Easy to assemble with the THERMOMARK CUTTER

General data

Can be printed with:

Temperature range

[°C]

Wipe resistance

THERMOMARK ROLL • THERMOMARK ROLL X1 •
THERMOMARK X1.1 • THERMOMARK X1.2
-30 ... 55
DIN EN 61010-1 (VDE 0411-1)

Description

Type

Order No.

Pcs. /
Pkt.

Magnetic foil as continuous media, anisotropic,
1 roll = 15 m, label height: 20 mm

white
silver
yellow

PMM (EX20)R
PMM (EX20)R SR
PMM (EX20)R YE

1014303
1014304
1014305

1
1
1

Magnetic foil as continuous media, anisotropic,
1 roll = 15 m, label height: 25 mm

white
silver
yellow

PMM (EX25)R
PMM (EX25)R SR
PMM (EX25)R YE

1014306
1014307
1014308

1
1
1

Magnetic foil as continuous media, anisotropic,
1 roll = 15 m, label height: 30 mm

white
silver
yellow

PMM (EX30)R
PMM (EX30)R SR
PMM (EX30)R YE

1014309
1014310
1014311

1
1
1

Magnetic foil as continuous media, anisotropic,
1 roll = 15 m, label height: 40 mm

white
silver
yellow

PMM (EX40)R
PMM (EX40)R SR
PMM (EX40)R YE

1014312
1014313
1014314

1
1
1

Magnetic foil as continuous media, anisotropic,
1 roll = 15 m, label height: 50 mm

white
silver
yellow

PMM (EX50)R
PMM (EX50)R SR
PMM (EX50)R YE

1014315
1014316
1014317

1
1
1

Magnetic labels, unprinted

- All PMM... markers can also be supplied labeled according to customer requirements

Notes:

For matching label frames, see page 296.



Labeled according to customer specifications

Technical data			
General data			
Temperature range	[°C]	-30 ... 55	
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)	
Ordering data			
Description	Color	Type	Order No.
Magnetic foil as continuous media, anisotropic, labeled according to customer specifications , 1 roll = 15 m, label height: 20 mm	white silver yellow	PMM (EX20)R CUS PMM (EX20)R SR CUS PMM (EX20)R YE CUS	1014318 1014319 1014320
Magnetic foil as continuous media, anisotropic, labeled according to customer specifications , 1 roll = 15 m, label height: 25 mm	white silver yellow	PMM (EX25)R CUS PMM (EX25)R SR CUS PMM (EX25)R YE CUS	1014321 1014322 1014323
Magnetic foil as continuous media, anisotropic, labeled according to customer specifications , 1 roll = 15 m, label height: 30 mm	white silver yellow	PMM (EX30)R CUS PMM (EX30)R SR CUS PMM (EX30)R YE CUS	1014324 1014325 1014326
Magnetic foil as continuous media, anisotropic, labeled according to customer specifications , 1 roll = 15 m, label height: 40 mm	white silver yellow	PMM (EX40)R CUS PMM (EX40)R SR CUS PMM (EX40)R YE CUS	1014327 1014328 1014329
Magnetic foil as continuous media, anisotropic, labeled according to customer specifications , 1 roll = 15 m, label height: 50 mm	white silver yellow	PMM (EX50)R CUS PMM (EX50)R SR CUS PMM (EX50)R YE CUS	1014330 1014331 1014332

Marking and labeling - MARKING system

System marking

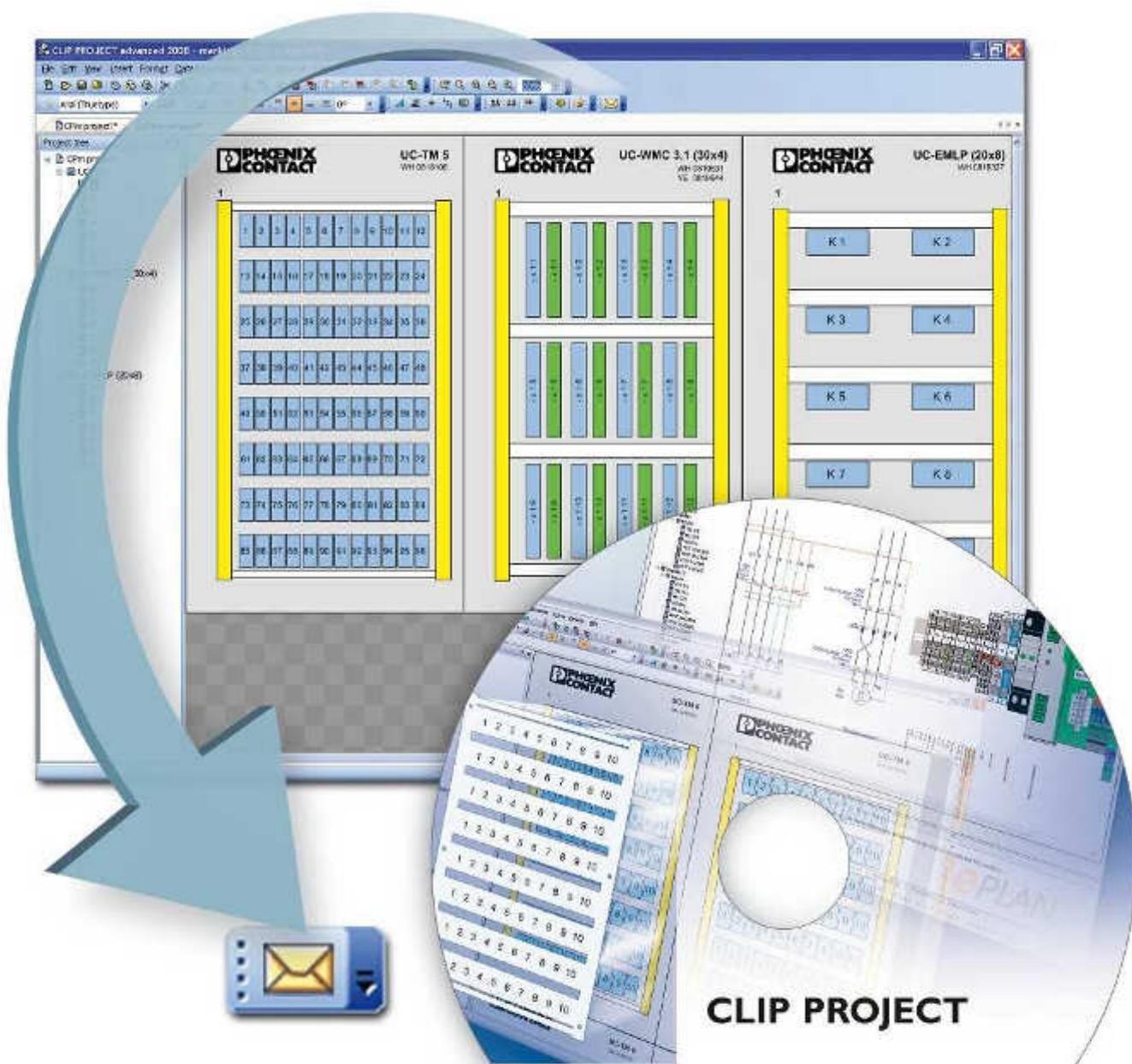
Ordering special marking with CLIP PROJECT

Phoenix Contact offers a marking service for all marking materials. We can provide you with marking materials marked according to your requirements in next to no time.



The materials which can be marked according to customer requirements are indicated with this symbol on the product pages.

Simply plan and place your order at the click of a mouse



1. Create your marking quickly and easily
2. Use the clear preview to check your marking
3. Then place your order directly from the software



Ordering special marking by fax or e-mail

Minimum order amount:

- Plastic sheets: 1 sheet
- Paper sheets: 1 sheet
- Rolls: 1 strip (row),
i.e., in the case of EML (20x8)R,
for example, 4 labels

The following information must be provided when ordering marking:

- Order number of the relevant ...CUS material
- Marking text
- Font size
- Read direction "horizontal" or "vertical"
- Normal or bold print
- Please send special characters, symbols, and logos as a bitmap file

1	2	3	4	5	6	7	...
---	---	---	---	---	---	---	-----

Marking direction "horizontal"

1	2	3	4	5	6	7	...
---	---	---	---	---	---	---	-----

Marking direction "vertical"



120 markers for a terminal block width of 4.2 mm



96 markers for a terminal block width of 5.2 mm

General data		Technical data			Technical data		
Can be printed with:		BLUEMARK LED • BLUEMARK CLED • CMS-P1-PLOTTER			BLUEMARK LED • BLUEMARK CLED • CMS-P1-PLOTTER		
Number of individual labels	120		120		96		
Number of individual labels per strip	15		15		12		
Material	PA		PA		PA		
Inflammability class according to UL 94	V2		V2		V2		
Temperature range	-40 ... 120		-40 ... 120		-40 ... 120		
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)		DIN EN 61010-1 (VDE 0411-1)		DIN EN 61010-1 (VDE 0411-1)		
Contents	Free from silicone and halogen		Free from silicone and halogen		Free from silicone and halogen		
UniCard, for marking terminal blocks with a marker groove							
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UniCard, for marking terminal blocks with a marker groove, labeled according to customer specifications		UC-TM 4	0818111	10	UC-TM 5	0818108	10
White	UC-TM 4 RD	0818250	10	UC-TM 5 RD	0818302	10	
Red	UC-TM 4 OG	0818221	10	UC-TM 5 OG	0818276	10	
Orange	UC-TM 4 YE	0818234	10	UC-TM 5 YE	0818289	10	
Yellow	UC-TM 4 VT	0819084	10	UC-TM 5 VT	0819107	10	
Violet	UC-TM 4 BU	0818247	10	UC-TM 5 BU	0818292	10	
Blue	UC-TM 4 GN	0818263	10	UC-TM 5 GN	0818315	10	
Green							
UniCard, for marking terminal blocks with a marker groove, labeled according to customer specifications		UC-TM 4 CUS	0824573	1	UC-TM 5 CUS	0824581	1
White	UC-TM 4 RD CUS	0824577	1	UC-TM 5 RD CUS	0824585	1	
Red	UC-TM 4 OG CUS	0824576	1	UC-TM 5 OG CUS	0824584	1	
Orange	UC-TM 4 YE CUS	0824579	1	UC-TM 5 YE CUS	0824587	1	
Yellow	UC-TM 4 VT CUS	0824578	1	UC-TM 5 VT CUS	0824586	1	
Violet	UC-TM 4 BU CUS	0824574	1	UC-TM 5 BU CUS	0824582	1	
Blue	UC-TM 4 GN CUS	0824575	1	UC-TM 5 GN CUS	0824583	1	
Green							

Ordering example for UC-TM 5 GN CUS

Vertical consecutive numbering from 1 to 12 is required for 8 identical terminal strips with 5 mm pitch. The UC-TM 5 ... sheet has 8 strips, each of which has 12 individual labels. In this case order as follows:

Unit (sheet)	Marking	Order No.
1	Numbers: Font size: Read direction: Normal printing	1 to 12 10 pt Vertical 0824583



Hand tools - TOOL fox

The TOOL fox range of tools offers processing and measuring tools for all electrical engineering applications.

The ergonomically designed tools for cutting, stripping, crimping, screwing, and testing impress with their optimum handling and quality. Specially hardened tool steels ensure maximum durability.

Cutting machines, stripping machines, and crimping machines are available which can be used to automate steps.

A wide range of connectors rounds off the product range.

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Hand tools



Professional cutting



Professional stripping



Professional crimping with up to 25 percent less force



There is an optimum cable cutter available for every application. The various versions enable professional processing of conductors and cables with a diameter of up to 100 mm. All parts of the cable cutters that are subject to particular strain are tempered and specially hardened.



The comprehensive range of combination tools ensures all applications are covered. The safety tools, which feature 2-component slip-proof handles, are VDE-tested and marked according to DIN EN 60900.



Profile cutters are available for rapid processing of DIN rails and cable ducts without chips or burrs. An optional hydraulic unit can be attached to convert manual DIN rail cutters into automatic ones.



The stripping tools can strip all types of conductors and cables quickly, precisely and reliably. They adapt automatically to the conductor cross section concerned.



The product innovation for switchgear manufacturing – the CRIMPHANDY, a battery-operated, portable hand-held machine. It strips and crimps the conductor in under two seconds, resulting in time savings of 75%.



The extensive range of professional crimping pliers can be used to process all types of contact with a cross section of up to 120 mm². The innovative design and ergonomically shaped handles reduce the forces required by up to 25 percent.



With their interchangeable dies, the CRIMPFOX-M universal crimping pliers can be used to process all kinds of contacts. The dies can be changed quickly and easily without the need for additional tools.



With their precise torque-setting feature, the torque and cordless screwdrivers are the perfect complement to the Phoenix Contact range of screw terminal blocks. The wide range of hardened BIT screwdriver inserts makes the products suitable for universal use.



Our multimeters, current pliers, and voltage testers are high-quality measuring tools, which have been tested and approved in accordance with national and international standards.

Hand tools

CUTFOX cable cutters

- CUTFOX ... cable cutters for professional cutting results
- Suitable for conductors with a max. diameter of 18 mm
- Ergonomic grip design to eliminate fatigue when working
- All parts of the cable cutters that are subject to particular strain are tempered or specially hardened



Cable cutters and electrician's scissors

Up to a maximum conductor diameter of 18 mm

Description	Ordering data			Ordering data		
	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Cable cutter , for copper and aluminum up to a diameter of 12 mm (up to 35 mm ²)	CUTFOX 12	1212128	1	CUTFOX 18	1212129	1
Cable cutter , angled, for copper and aluminum up to a diameter of 18 mm (up to 50 mm ²)						
Electrician's scissors , high cutting performance thanks to micro-serrated cutting area, suitable for copper, aluminum, Kevlar fibers, and plastic, two-component non-slip soft-grip handles, ergonomic design, adjustable screw joint	CUTFOX-ES	1212621	1			

CUTFOX one-handed ring cable cutters

- CUTFOX ... one-handed ring cable cutters for professional cutting results
- Suitable for conductors with a diameter of up to 52 mm
- With ratchet function for minimum effort
- Unlockable
- Superb cutting quality



Up to a maximum conductor diameter of 50 mm, steel-armored

Up to a maximum conductor diameter of 52 mm

Description	Ordering data			Ordering data		
	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Ring cable cutter , with ratchet function, for copper and aluminum up to a diameter of 50 mm, for steel-armored CU/AL cables, for stranded steel cables up to a diameter of 12 mm	CUTFOX 50 STEEL	1212526	1	CUTFOX 45	1212132	1
Ring cable cutter , with ratchet function, for copper and aluminum up to a diameter of 45 mm (up to 300 mm ²)						
Ring cable cutter , with ratchet function, for copper and aluminum up to a diameter of 52 mm (up to 300 mm ²)				CUTFOX 52	1212133	1

CUTFOX cable cutters

- CUTFOX ... cable cutters for professional cutting results
- Suitable for conductors with a max. diameter of 35 mm
- With ratchet function for minimum effort
- Ergonomic grip design to eliminate fatigue when working
- All parts of the cable cutters that are subject to particular strain are tempered or specially hardened



Up to a maximum conductor diameter of 25 mm



Up to a maximum conductor diameter of 35 mm

Description	Ordering data			Ordering data		
	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Cable cutter , with ratchet function, for copper and aluminum up to a diameter of 25 mm (up to 185 mm ²)	CUTFOX 25	1212130	1			
Cable cutter , with ratchet function, for copper and aluminum up to a diameter of 35 mm (up to 300 mm ²)	CUTFOX 35	1212131	1			

CUTFOX two-handed ring cable cutters

- CUTFOX ... two-handed ring cable cutters for professional cutting results
- Suitable for conductors with a diameter of up to 100 mm
- With ratchet function for minimum effort
- Unlockable
- Superb cutting quality



Up to a maximum conductor diameter of 62 mm



Up to a maximum conductor diameter of 100 mm

Description	Ordering data			Ordering data		
	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Two-handed ring cable cutter , with ratchet function, for copper and aluminum up to a diameter of 62 mm (up to 750 mm ²)	CUTFOX 62	1212134	1			
Two-handed ring cable cutter , with ratchet function, for copper and aluminum up to a diameter of 100 mm (up to 1400 mm ²)	CUTFOX 100	1212135	1			

Hand tools

Cutting tools for special applications

- The CUTFOX-FBS cutting tool is suitable for cutting out individual bars from FBS ... plug-in bridges
- Screw-on bridges can be cut to length with the CUTFOX FB without crushing them
- VDE-tested cutting tools made from special high-grade tool steel
- Inductively hardened blades for long-term stable cutting performance



Front cutting tool for cutting out
plug-in and insertion bridges



Cutting tool for screw-on bridges

Description	
Cutting tool , for separating individual jumper bars from FBS ... plug-in bridges and EB ... insertion bridges	
Bridge cutting tool , for cutting FBI ... fixed bridges to length	
Cable cutter , precision blade with macro-notching, for copper and aluminum up to 50 mm ² , VDE 1000 V AC/1500 V DC tested	
Cable cutter , precision blade with macro-notching, for copper and aluminum up to 70 mm ² , VDE 1000 V AC/1500 V DC tested	
Cable cutter , for laminated power rails/ribbed tape measuring up to 6 x 16 x 0.8 mm, copper and aluminum cables with a diameter of up to 50 mm, VDE 1000 V AC, 1500 V DC	
Diagonal cutter , with optimized leverage, VDE 1000 V AC/1500 V DC tested	
Power diagonal cutter , with optimized leverage, also suitable for piano wire, VDE 1000 V AC/1500 V DC tested	

Ordering data		Ordering data			
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
CUTFOX-FBS	1212124	1	CUTFOX FB	1205985	1



**Cable cutter for conductors
with a diameter of up to 25 mm (VDE)**



**Cable cutter for conductors and ribbed tape
with a diameter of up to 50 mm (VDE)**



**Diagonal cutter, also suitable
for piano wire (VDE)**



Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
CUTFOX 16 VDE	1212126	1	CUTFOX-LB VDE	1212527	1	CUTFOX-S VDE	1212207	1
CUTFOX 25 VDE	1212127	1				CUTFOX-SP VDE	1212206	1

Hand tools

UNIFOX universal tools

- UNIFOX ... VDE-totally-insulated combination pliers in straight and angled versions
- Ergonomic grip design to eliminate fatigue when working
- Excellent transmission ratios for excellent gripping and cutting performance
- Noticeably less force required on the part of the user



Combination pliers (VDE), straight



Combination pliers (VDE), angled

		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Combination pliers , cross-notched grip area, integrated M8 - M10 ring wrench, VDE 1000 V AC/1500 V DC tested	black	UNIFOX-C VDE	1212202	1	UNIFOX-CE VDE	1212203	1
Combination pliers , angled design, with opening spring and locking device, cross-notched grip area, integrated M8 - M10 ring wrench, VDE 1000 V AC/1500 V DC tested	black						

UNIFOX universal tools

- Individually tested safety tools according to DIN EN 60900 (VDE 0682-201)
- For working on or in the vicinity of live parts up to 1000 V AC or 1500 V DC
- The tools feature ergonomic two-component safety handles



Needle-nose pliers (VDE), straight



Needle-nose pliers (VDE), curved and angled

		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Needle-nose pliers with cut , gripping surface toothed, VDE 1000 V AC/ 1500 V DC tested	black	UNIFOX-P VDE	1212204	1	UNIFOX-PE VDE	1212529	1
Needle-nose pliers with cut , 45° bent, gripping surface toothed, VDE 1000 V AC/ 1500 V DC tested	black	UNIFOX-PC VDE	1212205	1			
Needle-nose pliers , angled design, with opening spring and locking device, finely notched grip area, stripping possible for 1.5 mm ² and 2.5 mm ² , integrated M8 - M10 ring wrench, VDE 1000 V AC/1500 V DC tested	black						

UNIFOX universal tools

- UNIFOX ... VDE-totally-insulated flat-nose, round-nose, and water pump pliers
- Notched grip areas
- Ergonomic grip design to eliminate fatigue when working
- Excellent transmission ratios for optimum gripping performance
- Forged die hardened in oil for maximum durability



Flat-nose pliers (VDE)



Water pump pliers

		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Flat-nose pliers , finely notched grip area, VDE 1000 V AC/1500 V DC tested	black	UNIFOX-F VDE	1212363	1			
Round-nose pliers , finely notched grip area, VDE 1000 V AC/1500 V DC tested	black	UNIFOX-R VDE	1212364	1			
Water pump pliers , with groove joint, grip areas with dual notching, acc. to VDE ISO 8976					UNIFOX-WP	1212365	1

UNIFOX cable binder tools for plastic and stainless steel cable binders

- Ergonomic tool for attaching and detaching cable binders in a single operation
- The infinitely adjustable tension force is indicated by a scale in the handle area
- When the tension force is reached, the remainder is automatically severed for a flush finish

Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Cable binder pliers , for plastic cable binders with a width of 2.2 - 4.8 mm, for a material thickness of up to 1.6 mm			
Ergonomically designed grip with comfortable tension force adjustment	UNIFOX-CT 4,8 UNIFOX-CT 4,8P	1212475 1212609	1 1
Cable binder pliers , for steel cable binders with a width of up to 7.9 mm, for a material thickness of up to 0.3 mm			
	UNIFOX-CT M 7,9	1212610	1

Hand tools

UNIFOX universal tools

- Compact, ergonomically shaped pliers
- 3 inserts for rivet diameter of 2.4 – 3.2 mm, 4 mm, and 4.8 – 5.0 mm
- Special rivets are available for fixing RW... and UW... high-current panel feed-through terminal blocks that are specifically designed for terminal blocks

Notes:

For high-current feed-through terminal blocks see Catalog 1.



Blind rivet pliers



Blind riveting with diameters of 2.4 to 5 mm



		Ordering data		Ordering data			
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Blind rivet pliers		UNIFOX-RVT M	1212476	1	RVT-AL/ST 2,4L/8	3240548	500
Rivet, aluminum/steel, rivet diameter/length					RVT-AL/ST 3/6	3240504	500
2.4/8 mm, for UW 4... terminal blocks	silver				RVT-AL/ST 3/8	3240505	500
3/6 mm	silver				RVT-AL/ST 3/10	3240506	500
3/8 mm	silver				RVT-AL/ST 3/12	3240507	500
3/10 mm	silver				RVT-AL/ST 3,2/6	3240509	500
3/12 mm, for UW 10..., UW 16..., and RW 5... terminal blocks	silver				RVT-AL/ST 3,2/8	3240510	500
3,2/6 mm	silver				RVT-AL/ST 3,2/10	3240511	500
3,2/8 mm	silver				RVT-AL/ST 3,2/12	3240512	500
3,2/10 mm	silver				RVT-AL/ST 4/6	3240513	500
3,2/12 mm	silver				RVT-AL/ST 4/8	3240514	500
4/6 mm	silver				RVT-AL/ST 4/10	3240515	500
4/8 mm	silver				RVT-AL/ST 4/12	3240516	500
4/10 mm	silver				RVT-AL/ST 4/14	3240517	500
4/12 mm	silver				RVT-AL/ST 4,8/6	3240518	500
4/14 mm, for UW 25... and RW 8... terminal blocks	silver				RVT-AL/ST 4,8/8	3240519	500
4,8/6 mm	silver				RVT-AL/ST 4,8/10	3240520	500
4,8/8 mm	silver				RVT-AL/ST 4,8/12	3240521	500
4,8/10 mm	silver				RVT-AL/ST 4,8/14	3240553	500
4,8/12 mm	silver				RVT-AL/ST 4,8/16	3240522	500
4,8/14 mm	silver						
4,8/16 mm	silver						
Rivet nozzle , long, specially designed for 3240548 rivet		Accessories		Accessories			
		UNIFOX-RVT M/BIT 2,4L	1212477	1			

Cable duct cutter

- Easy, burr-free cutting with minimum effort thanks to the special cutting geometry and optimum leverage
- Non-slip ergonomic grip
- With spring reset
- 45° limit stop
- 75 mm cutting width



Technical data		
Dimensions	Width [mm]	Length [mm]
General data	-	245
Weight [kg]	0.43	-
Ordering data		
Description	Color	Type
Cable duct cutter	black	CUTFOX-CD
Order No.		Pcs. / Pkt.
1212474		1

Cable duct cutters

- Leverage and special cutting geometry enables easy, burr-free cutting with minimum effort
- Grip protection for safety
- Metric measuring rail with adjustable limit stop
- 125 mm cutting width
- Material thickness of up to 2.5 mm



Technical data		
Dimensions	Width [mm]	Length [mm]
General data	285	280
Length of the measuring bar [mm]	1000	290
Length of the hand lever [mm]	500	
Ordering data		
Description	Color	Type
Cable duct cutters	black	PPS CD M
Order No.		Pcs. / Pkt.
1207569		1
Accessories		
Replacement blade, for PPS CD M	PPS CD BLADE	1207572
Replacement counter support (grip protection), for PPS CD M	PPS CD M COHO	1208995
Workbench, with plywood panel 700 x 1200 x 50 mm, without mounting screws and bore holes	PPS TABLE	1206285

Hand tools

Profile cutters



- The PPS BASIC I/M is the lightweight version of the profile cutters. It can be used to process the popular NS 35/15, NS 35/7,5, and NS 15 types of EN DIN rail, as well as the NLS-CU 3/10 neutral busbar
- The PPS STANDARD ... and PPS CLASSIC ... can be equipped with two stamping bits for round holes or elongated holes
- The PPS CLASSIC ... is the best choice if hole formats are changed on a frequent basis. By simply folding open the upper part of the PPS..., the stamping bits can be changed in no time at all



DIN rail cutter

Applied for:
GOST

Technical data				
Dimensions	[mm]	Width 150	Length 60	Height 180
General data				
Weight	[kg]	8.3		
Length of the measuring bar	[mm]	1000		
Length of the hand lever	[mm]	590		
Ordering data				
Description	Color	Type	Order No.	Pcs. / Pkt.
Profile cutter, for cutting standard DIN rails to length, NS 15 / NS 35/7,5 / NS 35/15, and for cutting the NLS-CU 3/10 neutral busbar to length, with inch/metric measuring rail	black	PPS BASIC I/M	1207585	1
Profile cutter, for cutting and stamping holes in standard DIN rails, NS 15 / NS 32 / NS 35/7,5 / NS 35/15, and for cutting the NLS-CU 3/10 neutral busbar to length, can accommodate 2 stamping bits, with metric measuring rail, supplied without stamping bits	black			
Same as before, but with inch/metric measuring rail	black			
Profile cutter, for cutting and stamping holes in standard DIN rails, NS 15 / NS 32 / NS 35/7,5 / NS 35/15, and for cutting the NLS-CU 3/10 neutral busbar to length, can accommodate 2 stamping bits, stamping bits are easily interchangeable, with metric measuring rail, supplied without stamping bits	black			
Same as before, but with inch/metric measuring rail	black			
Accessories				
Stamping insert, for elongated holes, longitudinal:				
3.5 x 12 mm				
4.5 x 12 mm				
5.5 x 12 mm				
6.5 x 15 mm				
Stamping insert, for elongated holes, transverse:				
3.5 x 12 mm				
4.5 x 12 mm				
5.5 x 12 mm				
6.5 x 15 mm				
Stamping bit, for bore holes				
3.8 mm Ø				
4.3 mm Ø				
5.3 mm Ø				
6.4 mm Ø				
7.0 mm Ø				
8.4 mm Ø				
Hydraulic cylinder, for connection to an existing hydraulic system, operating pressure of 160 – 220 bar, G 1/4" connection thread, with spring reset				
Workbench, with plywood panel 700 x 1200 x 50 mm, without mounting screws and bore holes		PPS TABLE	1206285	1



DIN rail cutter with bore hole die



DIN rail cutter with piercer and quick change mechanism

Applied for:
GOSTApplied for:
GOST

Technical data		
Width	Length	Height
180	100	220
19		
1000		
1000		

Technical data		
Width	Length	Height
250	100	230
19		
1000		
1000		

Ordering data		
Type	Order No.	Pcs. / Pkt.
PPS STANDARD M	1206175	1
PPS STANDARD I/M	1206230	1

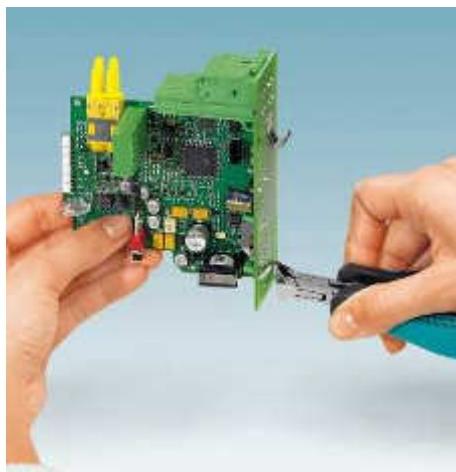
Ordering data		
Type	Order No.	Pcs. / Pkt.
PPS CLASSIC M	1206243	1
PPS CLASSIC I/M	1206256	1

Accessories		
PPS-ST (3,5X12)L	1203563	1
PPS-ST (4,5X12)L	1203534	1
PPS-ST (5,5X12)L	1202603	1
PPS-ST (6,5X15)L	1202593	1
PPS-ST (3,5X12)Q	1203550	1
PPS-ST (4,5X12)Q	1203547	1
PPS-ST (5,5X12)Q	1203411	1
PPS-ST (6,5X15)Q	1203408	1
PPS-ST (3,8)	1204892	1
PPS-ST (4,3)	1202616	1
PPS-ST (5,3)	1202629	1
PPS-ST (6,4)	1202632	1
PPS-ST (7,0)	1204889	1
PPS-ST (8,4)	1202726	1
PPS HYDRAULIC CYL	1208924	1
PPS TABLE	1206285	1

Accessories		
PPS-ST (3,5X12)L	1203563	1
PPS-ST (4,5X12)L	1203534	1
PPS-ST (5,5X12)L	1202603	1
PPS-ST (6,5X15)L	1202593	1
PPS-ST (3,5X12)Q	1203550	1
PPS-ST (4,5X12)Q	1203547	1
PPS-ST (5,5X12)Q	1203411	1
PPS-ST (6,5X15)Q	1203408	1
PPS-ST (3,8)	1204892	1
PPS-ST (4,3)	1202616	1
PPS-ST (5,3)	1202629	1
PPS-ST (6,4)	1202632	1
PPS-ST (7,0)	1204889	1
PPS-ST (8,4)	1202726	1
PPS TABLE	1206285	1

Hand tools

MICROFOX electronic pliers



Miniature precision pliers feature the following:

- Ergonomically designed two-component grip for fatigue-proof and non-slip use
- Manufactured from high-grade special tool steel
- Opening spring for uniform, smooth opening
- Through-connected joint for permanent stability and optimum distribution of force
- Mirror-polished and oiled metal surfaces, which provide maximum rust protection

Cutting pliers

- Additional inductive hardened cutting for long-term, stable cutting performance
- Precision-ground for exact cutting applications with minimum effort
- Various head shapes, even for areas that are difficult to access

Gripping and bending pliers

- Smooth grip to prevent damage to components when gripping and bending

Notes:

For technical data regarding cutting capacity, see www.phoenixcontact.net/products.

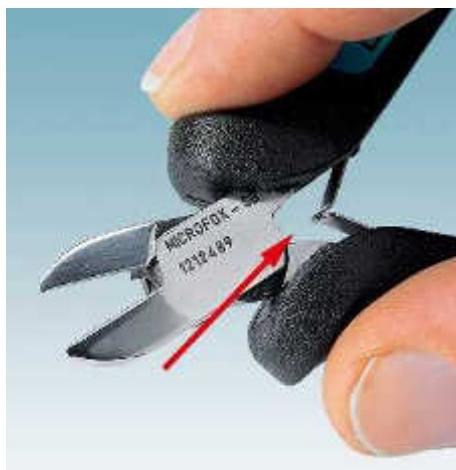


Diagonal cutter, with chamfer



Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Electronic diagonal cutter, round head, with chamfer, with opening spring	MICROFOX-SB	1212489	1
Electronic diagonal cutter, tapered head, angled (21°), without chamfer, with opening spring	MICROFOX-SP	1212488	1
Electronic diagonal cutter, tapered head, without chamfer, with opening spring, non-reflective phosphate-treated surface, punched version	MICROFOX-SP-1	1212487	1
Electronic front cutter, without chamfer, with opening spring			
Electronic front cutter, 20° angle, without chamfer, with opening spring			
Electronic needle-nose pliers, smooth grip, with opening spring			
Electronic needle-nose pliers, 45° angle, smooth grip, with opening spring			
Electronic flat-nose pliers, smooth grip, with opening spring			
Electronic round-nose pliers, smooth grip, with opening spring			





Front cutter



Needle-nose pliers



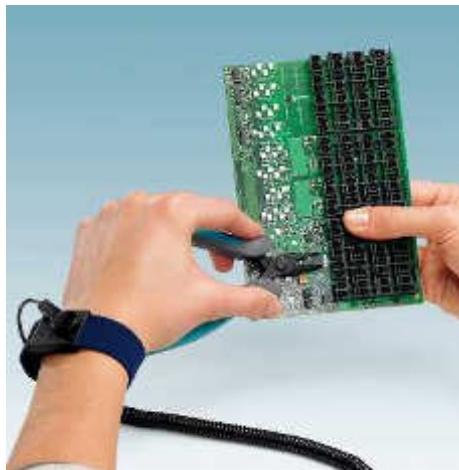
Flat/round-nose pliers



Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
MICROFOX-E	1212494	1						
MICROFOX-EO	1212495	1	MICROFOX-P	1212491	1			
			MICROFOX-PC	1212492	1	MICROFOX-F	1212493	1
						MICROFOX-R	1212490	1

Hand tools

MICROFOX ESD electronic pliers



ESD MICROFOX pliers offer the following features:

- The special conductive plastic grip ensures slow and safe removal of electrostatic energy according to standards and directives such as DIN EN 61340-5
- Ergonomically designed two-component grip for fatigue-proof and non-slip use
- Manufactured from high-grade special tool steel
- Opening spring for uniform, smooth opening
- Screwed precision joint for permanent stability and optimum results
- Mirror-polished and phosphate-treated metal surfaces for optimum rust protection and no glare when working

Cutting pliers

- Additional inductive hardened cutting for long-term, stable cutting performance
- Precision-ground for exact cutting applications with minimum effort
- Various head shapes, even for areas that are difficult to access

Gripping and bending pliers

- Smooth grip to prevent damage to components when gripping and bending

Notes:

For technical data regarding cutting capacity, see www.phoenixcontact.net/products.



ESD diagonal cutter



Ordering data

Description	Type	Order No.	Pcs. / Pkt.
ESD electronic diagonal cutter, round head, without chamfer, with opening spring	MICROFOX-S ESD	1212480	1
ESD electronic front cutter, without chamfer, with opening spring			
ESD electronic needle-nose pliers, smooth grip, with opening spring			
ESD electronic needle-nose pliers, 45° angle, smooth grip, with opening spring			
ESD electronic flat-nose pliers, smooth grip, with opening spring			
ESD electronic round-nose pliers, smooth grip, with opening spring			





ESD front cutter



ESD needle-nose pliers



ESD flat/round-nose pliers



Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
MICROFOX-E ESD	1212485	1	MICROFOX-P ESD	1212482	1	MICROFOX-F ESD	1212484	1
			MICROFOX-PC ESD	1212483	1	MICROFOX-R ESD	1212481	1

Hand tools

WIREFOX stripping tools

N

- Ergonomically shaped pliers
- WIREFOX ... stripping pliers are characterized by their mechanism that adjusts automatically to all kinds of insulation and conductor diameters
- Practical integrated wire cutter
- Highly adjustable limit stop for the stripping length

0.08 - 2.5 mm² conductor cross sectionConductor cross section of 0.1 - 4 mm²
for special applications

PC

Conductor/cable stripping range	
Conductor / cable	[mm ²] / AWG
Stripping length up to ...	[mm]
Wire cutter solid // stranded	[mm ²] / AWG

Technical data		Technical data	
0.08 - 2.5 / 28 - 12		0.1 - 4 / 28 - 12	
15		18	
2.5 / 14 // 6 / 10		1.5 / 16 // 10 / 8	

Description	Color
Stripping tool , angled design, for cables and conductors with a cross section of 0.08 mm – 2.5 mm ² , self-adjusting, stripping length of up to 15 mm, cutting capacity: solid up to 2.5 mm ² , stranded up to 6 mm ²	Black

Ordering data		Ordering data	
Type	Order No.	Pcs. / Pkt.	Type
WIREFOX 2,5	1212368	1	WIREFOX-E 4

Stripping tool, angled shape, for cables and conductors (specifically also intended for rubber and other kinds of special insulation) from 0.1 mm – 4 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity: solid up to 1.5 mm², stranded up to 10 mm²

Black/green

Stripping tool, angled shape, for cables and conductors (specifically also intended for short-circuit-proof cables) from 1.5 mm – 6 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity: solid up to 1.5 mm², stranded up to 10 mm²

Black/green

Stripping tool, angled design, for cables and conductors from 0.02 mm – 10 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity: solid up to 1.5 mm², stranded up to 10 mm²

Black/green

Stripping tool, angled design, for cables and conductors from 4 mm – 16 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity: solid up to 1.5 mm², stranded up to 10 mm²

Black/green

Accessories		Accessories	
WIREFOX 2,5/SB	1212369	1	WIREFOX 4/SB
WIREFOX 2,5/WS	1212370	1	1212151

Spare knife

Spare limit stop



Conductor cross section of 1.5 - 6 mm², short-circuit-proof cables

N



0.02 - 10 mm² conductor cross section

N



4 - 16 mm² conductor cross section

N

Technical data			Technical data			Technical data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
WIREFOX-E 6SC	1212705	1	WIREFOX-E 10	1212706	1	WIREFOX-E 16	1212707	1
WIREFOX 6SC/SB	1212314	1	WIREFOX 10/SB	1212152	1	WIREFOX 16/SB	1212153	1
Accessories			Accessories			Accessories		

Hand tools

WIREFOX stripping tools



- Ergonomically shaped pliers
- WIREFOX ... stripping pliers are characterized by their mechanism that adjusts automatically to all kinds of insulation and conductor diameters
- Practical integrated wire cutter
- Highly adjustable limit stop for the stripping length



**Conductor cross section of 0.1 - 4 mm²
for special applications**



Technical data			
Conductor/cable stripping range	Conductor / cable [mm ²] / AWG	0.1 - 4 / 28 - 12	
Stripping length up to ...	[mm]	18	
Wire cutter solid // stranded	[mm ²] / AWG	1.5 / 16 // 10 / 8	



Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Stripping tool, for cables and conductors (specifically also intended for rubber and other kinds of special insulation) with a cross section of 0.1 – 4 mm ² , self-adjusting, stripping length of up to 18 mm, cutting capacity: solid up to 1.5 mm ² , stranded up to 10 mm ²	Black/green	WIREFOX 4	1212156
Stripping tool, for cables and conductors (specifically for short-circuit-proof cables) of 1.5 - 6 mm ² , self-adjusting, stripping length of up to 18 mm, cutting capacity: solid up to 1.5 mm ² , stranded up to 10 mm ²	Black/green		
Stripping tool, for 0.02 - 10 mm ² cables and conductors, self-adjusting, stripping length up to 18 mm, cutting capacity: solid up to 1.5 mm ² , stranded up to 10 mm ²	Black/green		
Stripping tool, for cables and conductors of 4 - 16 mm ² , self-aligned, stripping length up to 18 mm, cutting capacity: solid up to 1.5 mm ² , stranded up to 10 mm ²	Black/green		
Spare knife		WIREFOX 4/SB	1212151

Accessories		
Spare knife	WIREFOX 4/SB	1212151



Conductor cross section of 1.5 - 6 mm², short-circuit-proof cables



0.02 - 10 mm² conductor cross section



4 - 16 mm² conductor cross section



Technical data

1.5 - 6 / 16 - 8
18
1.5 / 16 // 10 / 8

Technical data

0.02 - 10 / 34 - 8
18
1.5 / 16 // 10 / 8

Technical data

4 - 16 / 12 - 5
18
1.5 / 16 // 10 / 8

Ordering data

Type	Order No.	Pcs. / Pkt.
WIREFOX 6SC	1212158	1

Ordering data

Type	Order No.	Pcs. / Pkt.
WIREFOX 10	1212150	1

Ordering data

Type	Order No.	Pcs. / Pkt.
WIREFOX 16	1212155	1

Accessories

WIREFOX 6SC/SB	1212314	1
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Accessories

WIREFOX 10/SB	1212152	1
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Accessories

WIREFOX 16/SB	1212153	1
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Hand tools

WIREFOX stripping tools

- WIREFOX ... stripping pliers are characterized by their mechanism that adjusts automatically to all kinds of insulation and conductor diameters



Conductor cross section of 6 - 16 mm²,
any stripping length



8 - 9 mm conductor diameter

Conductor/cable stripping range	[mm ²] / AWG
Conductor / cable	6 - 16 / 10 - 5

		Technical data		Technical data			
		Ordering data		Ordering data			
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Stripping pliers , for cables and conductors with a cross section of 6 – 16 mm ² , self-adjusting, any stripping length, also suitable for sensor/actuator cables	black	WIREFOX 16-1	1212157	1			
Stripping pliers , for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, for diameters from 4.4 mm to 7 mm, any stripping length	black	WIREFOX SAC	1212623	1			
Stripping pliers , for removing jackets from cables for cable cut-outs, cable tap-offs, and shield connections with a diameter of 8 – 9 mm, insulation thickness of up to 1.2 mm, stripping lengths of 20 mm and above	black				WIREFOX-D SHIELD	1212172	1
Stripping pliers , for 0.75 - 2.5 mm ² flat cables up to 15 mm wide, any stripping length	black						
Stripping pliers , for AS interface flat wires, any desired stripping length	black						
Stripping pliers , for stripping conductors with a cross section of up to 10 mm ² , VDE-tested	black						
Multifunction stripping tool , for removing the jacket from cables with a diameter of 8 to 13 mm, for stripping cables with a cross section of 0.2 to 10 mm ² , with full-fledged diagonal cutter, VDE 1000 V AC/1500 V DC tested	black						
Spare knife		Accessories		Accessories			
		WIREFOX 16-1/SB	1204944	1			



For flat cables



Conductor cross section of 0.2 - 10 mm², (VDE)



Multifunctional tool



Technical data			Technical data			Technical data		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
WIREFOX FC	1212619	1	WIREFOX 10 VDE	1212366	1	WIREFOX-MP VDE	1212528	1
WIREFOX ASI	1212154	1						
WIREFOX ASI/SB	1208076	1						

Hand tools

WIREFOX stripping tools



- Large selection of precision stripping tools
- The right tool for every application
- Possible to strip conductors and cables with all kinds of insulation up to a diameter of 40 mm



Conductor diameter of 2.5 - 11 mm



Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Stripping tool , for stripping multicore signal, control, and fiber-glass wires of 2.5 – 11 mm Ø, insulation thickness up to 1 mm	black	WIREFOX-D 11	1212160	1
Stripping tool , for stripping installation cables with 8 - 13 mm Ø, for example, NYM 3x1.5 mm ² to NYM 5x2.5 mm ² , single-wire stripping, 0.2 - 4 mm ² , with blade for lateral cutting and extendable knife	black			
Stripping tool , for stripping cables (especially fiber optic cables) of 4 – 16 mm Ø	black			
Stripping tool , for stripping wires of 8 – 28 mm Ø	black			
Stripping tool , for stripping cables of 4.5 – 40 mm Ø, insulation strength up to 4.5 mm, swiveling knife for round, longitudinal and spiral cuts	black			
Spare knife		WIREFOX-D 11/SB	1212312	1

Accessories



Conductor diameter of 8 - 13 mm



Conductor diameter of 4 - 40 mm



Ordering data		
Type	Order No.	Pcs. / Pkt.
WIREFOX-D 13	1212162	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
WIREFOX-D 16	1212173	1
WIREFOX-D 28	1212174	1
WIREFOX-D 40	1212161	1

Accessories		

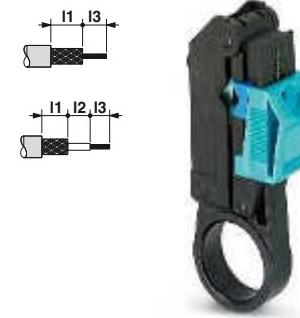
Accessories		
WIREFOX-D 40/SB	1212313	1

Hand tools

WIREFOX stripping tools



- Large selection of precision stripping tools
- The right tool for every application
- Possible to strip conductors and cables with all kinds of insulation up to a diameter of 40 mm



**For coaxial cables,
conductor diameter of 2.5 - 7.6 mm**

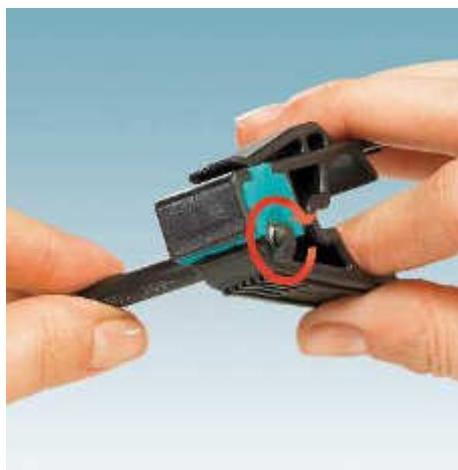


Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Stripping tool , for coaxial cables of 2.5 – 7.6 mm Ø				
2-stage, setting dimension L1 = 6.0 mm	black	WIREFOX-D CX-1	1212163	1
2-stage, setting dimension L1 = 9.2 mm	black	WIREFOX-D CX-2	1212164	1
2-stage, setting dimension L1 = 12 mm	black	WIREFOX-D CX-3	1212165	1
2-stage, setting dimension L1 = 6.8 mm	black	WIREFOX-D CX-4	1212166	1
3-stage, setting dimension L1 = 5.5 mm, L2 = 5.5 mm	black	WIREFOX-D CX-5	1212167	1
3-stage, setting dimension L1 = 2.7 mm, L2 = 8.3 mm	black	WIREFOX-D CX-6	1212168	1
3-stage, setting dimension L1 = 6.0 mm, L2 = 6.0 mm	black	WIREFOX-D CX-7	1212169	1
3-stage, setting dimension L1 = 2.5 mm, L2 = 6.8 mm	black	WIREFOX-D CX-8	1212170	1
3-stage, setting dimension L1 = 3.5 mm, L2 = 7.5 mm	black	WIREFOX-D CX-9	1212171	1
Stripping tool , for standard 2.5, 4, and 6 mm ² solar cables, with 15 mm length stop, for SUNCLIX plug-in connectors	black			
Stripping tool , for 2.5 - 6 mm ² solar cables, 8.5 mm stripping length, for MC3, MC4 and SOLARLOK contacts	black			
Stripping tool , for CATV type F, stripping length: 6.35 mm	black			

Accessories

Spare knife	WIREFOX-D CX-1/SB WIREFOX-D CX-2/SB WIREFOX-D CX-3/SB WIREFOX-D CX-4/SB WIREFOX-D CX-5/SB WIREFOX-D CX-6/SB WIREFOX-D CX-7/SB WIREFOX-D CX-8/SB WIREFOX-D CX-9/SB	1212303 1212304 1212305 1212306 1212307 1212308 1212309 1212310 1212311	1 1 1 1 1 1 1 1 1
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For solar cables,
conductor cross section of 2.5 - 6 mm²



N

For coaxial cables, RG 59 and RG 6

P

Ordering data		
Type	Order No.	Pcs. / Pkt.
WIREFOX-D SR 6-1	1212511	1
WIREFOX-D SR 6	1212507	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
WIREFOX-CX 6,35	1212733	1

Accessories		

Accessories		

Hand tools

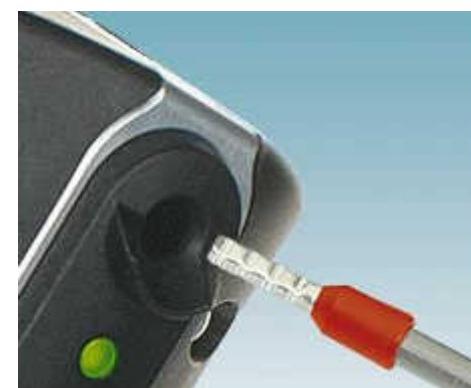
CRIMPHANDY - portable hand-held machine. Stripping and crimping in just one step.



Simply insert the conductor, ...



... stripping and crimping is carried out automatically, ...



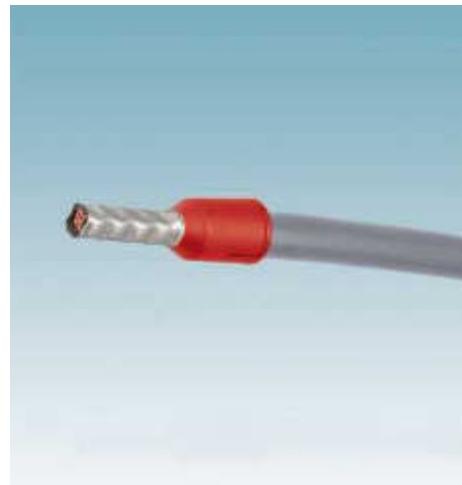
... and you're done.



Easy operation thanks to the automatic stripping and crimping function. The device signals the operating states clearly by means of colored LEDs.



Automatic cross-section monitoring prevents faulty crimping as a result of incorrect cross sections. The device displays a corresponding message.



Quadratic crimping can be used for all terminal points and terminal shafts. Here the pull-out forces exceed the specified standard conditions.



Integrated magazine for ferrules in strip form. The automatic feed enables multiple conductors to be crimped one after another without interruption.



Easy to remove collecting chamber for discarded insulation. This guarantees a clean working environment. The device can therefore also be used inside the control cabinet.



Integrated lithium-ion polymer rechargeable battery for 2000 crimps. The fast charger provided charges the battery, which is easy to replace, in just 60 minutes.

Hand tools

CRIMPHANDY, portable hand-held machine, for a 1.0 mm² conductor cross section

N



The product innovation for switchgear manufacturing – the CRIMPHANDY. With this portable hand-held machine, you can strip and crimp your conductors in under two seconds – 75% less time than before.

- The matching reel ferrules are suitable for use on all modular terminal blocks, particularly those from the CLIPLINE complete system:
- UT screw connection terminal blocks
- ST spring-cage connection terminal blocks
- PT push-in connection terminal blocks
- COMBI plug-in connection solutions

Notes:

An application video can be found in the download area for the relevant product on our website at www.phoenixcontact.net/products.



1.0 mm² conductor cross section

Technical data				
Dimensions	[mm]	Width 42	Length 200	Height 67
General data				
Weight	[kg]	0.43		
Conductor	[mm ²]	1 - 1		
Working cycle	[s]	2		
Compression		Square crimp		
Ordering data				
Description	Type	Order No.	Pcs. / Pkt.	
Portable hand-held machine, battery-powered , for ferrules, 1.0 mm ² , incl. battery and charger, 100 - 240 V, in a robust aluminum case For standard PVC and PE conductors	CF CRIMPHANDY 1,0	1212465	1	
Accessories				
Reel ferrules , 1.0 mm ² , 8 mm, with plastic sleeve, according to DIN 46228-4, red, 50 pieces per strip	AI 1,0-8 RD-S	1212523	50	
Replacement battery , for CF CRIMPHANDY..., Li-ion 7.4 V, 0.76 Ah	CF CRIMPHANDY/ACCU	1212518	1	
Replacement charger , for CF CRIMPHANDY..., 100 - 240 V AC	CF CRIMPHANDY/CHARGER	1212519	1	



CRIMPHANDY, portable hand-held machine, for a 1.5 mm² conductor cross section



The product innovation for switchgear manufacturing – the CRIMPHANDY. With this portable hand-held machine, you can strip and crimp your conductors in under two seconds – 75% less time than before.

- The matching reel ferrules are suitable for use on all modular terminal blocks, particularly those from the CLIPLINE complete system:
- UT screw connection terminal blocks
- ST spring-cage connection terminal blocks
- PT push-in connection terminal blocks
- COMBI plug-in connection solutions

Notes:

An application video can be found in the download area for the relevant product on our website at www.phoenixcontact.net/products.



1.5 mm² conductor cross section

Technical data			
Dimensions	[mm]	Width 42	Length 200
General data		Height 67	
Weight	[kg]	0.43	
Conductor	[mm ²]	1.5 - 1.5	
Working cycle	[s]	2	
Compression		Square crimp	
Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Portable hand-held machine, battery-powered, for ferrules, 1.5 mm ² , incl. battery and charger, 100 - 240 V, in a robust aluminum case For standard PVC and PE conductors	CF CRIMPHANDY 1,5	1212466	1
Accessories			
Reel ferrules, 1.5 mm ² , 8 mm, with plastic sleeve, according to DIN 46228-4, red, 50 pieces per strip	AI 1,5-8 BK-S	1212524	50
Replacement battery, for CF CRIMPHANDY..., Li-ion 7.4 V, 0.76 Ah	CF CRIMPHANDY/ACCU	1212518	1
Replacement charger, for CF CRIMPHANDY..., 100 - 240 V AC	CF CRIMPHANDY/CHARGER	1212519	1

Hand tools

CRIMPFOX crimping pliers for ferrules

N

0.25 - 2.5 mm² conductor cross section

- Extensive range of crimping pliers
- All ferrules can be optimally crimped with a minimum amount of effort even in the case of large conductor cross sections
- Consistently high crimping quality
- Unlockable pressure lock
- Marked die stations for precise processing of the relevant cross sections

CRIMPFOX 6S .../ ...T

- Self-adjusting die automatically adapts to the connector size
- Bound to impress thanks to the quick and reliable contact processing method
- Ergonomically designed handles ensure an optimum grip and help avoid fatigue when working

Technical data			
Application range			
Conductor	[mm ²] / AWG	0.25 - 2.5 / 24 - 12	
Compression		Trapezoidal crimp	
Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Crimping pliers , compact pliers, for ferrules according to DIN 46228-1 and DIN 46228-4, unlockable pressure lock, lateral entry	CRIMPFOX 2,5-M	1212719	1
Crimping pliers , for ferrules as per DIN 46228-1 and DIN 46228-4, five marked die stations, pressure lock can be released, lateral entry			
Crimping pliers , compact pliers, for ferrules according to DIN 46228-1 and DIN 46228-4, unlockable pressure lock, lateral entry			
Crimping pliers , for ferrules as per DIN 46228-1 and DIN 46228-4, self-adjusting die, pressure lock can be released, front entry			
Accessories			
Replacement die			
Replacement recuperating spring	CRIMPFOX/ SPR-1	1212069	1

0.25 - 6 mm² conductor cross section0.25 - 6 mm² conductor cross section

N

0.5 - 6 mm² conductor cross section

Technical data		
0.25 - 6 / 24 - 10 Trapezoidal crimp		

Technical data		
0.25 - 6 / 24 - 10 Trapezoidal crimp		

Technical data		
0.5 - 6 / 20 - 10 Square crimp		

Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 6	1212034	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 6-M	1212720	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 6S-F	1212043	1

Accessories		
CRIMPFOX 6/DIE	1212035	1
CRIMPFOX/ SPR-3	1212036	1

Accessories		
CRIMPFOX/ SPR-1	1212069	1

Accessories		
CRIMPFOX/ SPR-3	1212036	1

Hand tools

CRIMPFOX crimping pliers for ferrules



- Extensive range of crimping pliers
- All ferrules can be optimally crimped with a minimum amount of effort even in the case of large conductor cross sections
- Consistently high crimping quality
- Unlockable pressure lock
- Marked die stations for precise processing of the relevant cross sections

CRIMPFOX 6S .../ ...T

- Self-adjusting die automatically adapts to the connector size
- Bound to impress thanks to the quick and reliable contact processing method
- Ergonomically designed handles ensure an optimum grip and help avoid fatigue when working

0.25 - 6 mm² conductor cross section**Technical data**

Application range	
Conductor	[mm ²] / AWG
	0.25 - 6 / 24 - 10 Trapezoidal crimp

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Crimping pliers , for ferrules as per DIN 46228-1 and DIN 46228-4, self-adjusting die, pressure lock can be released, lateral entry	CRIMPFOX 6T	1212037	1
Crimping pliers , for ferrules as per DIN 46228-1 and DIN 46228-4, self-adjusting die, pressure lock can be released, front entry			
Crimping pliers , compact pliers, for ferrules according to DIN 46228-1 and DIN 46228-4, unlockable pressure lock, lateral entry			

Accessories

Replacement recuperating spring	CRIMPFOX/ SPR-1	1212069	1
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N

0.25 - 6 mm² conductor cross section4 - 10 mm² conductor cross section

P

Technical data0.25 - 6 / 24 - 10
Trapezoidal crimp**Ordering data**

Type	Order No.	Pcs. / Pkt.
CRIMPFOX 6T-F	1212038	1

Accessories

CRIMPFOX/ SPR-1	1212069	1
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Technical data4 - 10 / 12 - 8
Trapezoidal crimp**Ordering data**

Type	Order No.	Pcs. / Pkt.
CRIMPFOX 10	1212721	1

Accessories

CRIMPFOX/ SPR-1	1212069	1
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Hand tools

CRIMPFOX crimping pliers for ferrules

- These compact crimping pliers have been designed to reduce effort when working
- The way in which the handles and the die are arranged means that the ferrules can be fitted however the tool is held

Notes:

For matching ferrules, cable lugs, and flat plugs, see page 444 onwards.



0.14 - 10 mm² conductor cross section

0.14 - 6 mm² conductor cross section

Application range	
Conductor	[mm ²] / AWG
Compression	
Description	Crimping pliers, for ferrules as per DIN 46228, 0.14 – 10 mm ² , pressure lock can be released, lateral entry
Crimping pliers, for ferrules as per DIN 46228, 0.14 – 6 mm ² , pressure lock can be released, lateral entry	
Replacement recuperating spring	

Technical data			Technical data		
0.14 - 10 / 25 - 7 Square crimp			0.14 - 6 / 25 - 10 HEX crimp		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
CRIMPFOX 10S	1212045	1	CRIMPFOX 6H	1212046	1
Accessories			Accessories		
CRIMPFOX/SPR-2	1212047	1	CRIMPFOX/SPR-2	1212047	1

CRIMPFOX crimping pliers for ferrules

- These crimping pliers can be used to process ferrules measuring up to 50 mm²
- Ergonomically designed handles ensure an optimum grip and reduce the amount of force required by 25 percent

Notes:

For matching ferrules, cable lugs, and flat plugs, see page 444 onwards.



10 - 25 mm² conductor cross section

35 - 50 mm² conductor cross section

Application range	
Conductor	[mm ²] / AWG
Compression	

Description
Crimping pliers , for ferrules as per DIN 46228-1 and DIN 46228-4, three marked die stations, pressure lock can be released, lateral entry
Crimping pliers , for ferrules as per DIN 46228-1 and DIN 46228-4, two marked die stations, pressure lock can be released, lateral entry

Replacement die
CRIMPFOX 25R/DIE

Replacement recuperating spring

CRIMPFOX/ SPR-1

Technical data			Technical data		
Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
CRIMPFOX 25R	1212039	1	CRIMPFOX 50R	1212041	1
CRIMPFOX 25R/DIE	1212040	1	CRIMPFOX 50R/DIE	1212042	1
CRIMPFOX/ SPR-1	1212069	1	CRIMPFOX/ SPR-1	1212069	1

Hand tools

CRIMPFOX crimping pliers for cable lugs and connectors

- Unlockable pressure lock
 - They unlock as soon as the required crimping pressure is attained, thus ruling out the possibility of too little pressure
 - The color coded dies clearly indicate the cross section

Notes:-

For matching ferrules, cable lugs, and flat plugs, see page 444 onwards.

For replacement dies and retaining springs, go to the product area on the website at www.phoenixcontact.net/products.



0.14 - 1 mm² conductor cross section



0.75 - 2.5 mm² conductor cross section

Application range	Technical data		Technical data			
	Conductor [mm ²] / AWG	Oval crimp	Conductor [mm ²] / AWG	Oval crimp		
Description	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Crimping pliers , for insulated cable lugs (light green, red), three marked die stations, pressure lock can be released, lateral entry	CRIMPFOX-RCI 1	1212055	1			
Crimping pliers , compact pliers, for insulated cable lugs (light green, red), three marked die stations, unlockable pressure lock, lateral entry	CRIMPFOX-RCI 1-M	1212727	1			
Crimping pliers , for insulated cable lugs (red, blue), two marked die stations, pressure lock can be released, lateral entry				CRIMPFOX-RCI 2,5	1212053	1
Crimping pliers , compact pliers, for insulated cable lugs (red, blue), two marked die stations, unlockable cable lug, lateral entry				CRIMPFOX-RCI 2,5-M	1212728	1
Crimping pliers , for symmetrical insulated cable lugs (red, blue, yellow), three marked die stations, pressure lock can be released, lateral entry						
Crimping pliers , compact pliers, for symmetrical insulated cable lugs (red, blue, yellow), three marked die stations, unlockable pressure lock, lateral entry						
Crimping pliers , compact pliers, for symmetrical insulated DIN cable lugs (red, blue, yellow), three marked die stations, unlockable pressure lock, lateral entry						
Crimping pliers , for asymmetrical insulated cable lugs (red, blue, yellow), three marked die stations, pressure lock can be released, lateral entry						
Crimping pliers , compact pliers, for fully insulated butt connectors (red, blue, yellow), three marked die stations, unlockable pressure lock, lateral entry						

0.75 - 6 mm² conductor cross section0.75 - 6 mm² conductor cross section0.5 - 6 mm² conductor cross section

Technical data			Technical data			Technical data		
0.75 - 6 / 20 - 10 Oval crimp			0.75 - 6 / 20 - 10 Oval crimp			0.5 - 6 / 20 - 10 Oval crimp		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
CRIMPFOX-RCI 6	1212057	1						
CRIMPFOX-RCI 6-M	1212730	1						
CRIMPFOX-RCI DIN 6	1212729	1	CRIMPFOX-RCI 6-1	1212059	1			
						CRIMPFOX-HS 6	1212722	1

Hand tools

**CRIMPFOX crimping pliers
for uninsulated cable lugs**

- For processing uninsulated cable lugs
- Compact and lightweight design
- Unlockable pressure lock
- Marked die stations for precise processing of the relevant cross sections

Notes:

For matching ferrules, cable lugs, and flat plugs, see page 444 onwards.

For replacement dies and retaining springs, visit www.phoenixcontact.net/products.

0.75 - 2.5 mm² conductor cross section0.5 - 6 mm² conductor cross section

Application range

Conductor [mm²] / AWG
Compression



Technical data

Description	0.75 - 2.5 / 22 - 14 Indent crimp	0.5 - 6 / 20 - 10 Indent crimp
Crimping pliers, for uninsulated cable lugs, three marked die stations, pressure lock can be released, lateral entry	CRIMPFOX-RC 2,5	1212063
Crimping pliers, compact pliers, for uninsulated cable lugs, three marked die stations, unlockable pressure lock, lateral entry	CRIMPFOX-RC 2,5-M	1212723
Crimping pliers, compact pliers, for uninsulated cable lugs, two marked die stations, unlockable pressure lock, lateral entry		
Crimping pliers, for uninsulated cable lugs, two marked die stations, unlockable pressure lock, lateral entry		
Crimping pliers, for uninsulated cable lugs, three marked die stations, unlockable pressure lock, lateral entry		

Technical data

Technical data

Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
CRIMPFOX-RC 2,5	1212063	1			
CRIMPFOX-RC 2,5-M	1212723	1			
			CRIMPFOX-RC 6-M	1212724	1

N

0.5 - 6 mm² conductor cross section4 - 10 mm² conductor cross section10 - 25 mm² conductor cross section

P

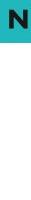
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Technical data			Technical data			Technical data		
0.5 - 6 / 20 - 10 Indent crimp			4 - 10 / 12 - 8 Indent crimp			10 - 25 / 8 - 4 Indent crimp		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
CRIMPFOX-RC 6	1212710	1	CRIMPFOX-RC 10	1212061	1	CRIMPFOX-RC 25	1212065	1

Hand tools

**CRIMPFOX crimping pliers
for uninsulated tube lugs**

- For processing uninsulated tube lugs
- Compact and lightweight design
- Unlockable pressure lock
- Consistently high crimping quality
- Ergonomically designed handles ensure an optimum grip and help avoid fatigue when working

4 - 16 mm² conductor cross section10 - 70 mm² conductor cross section

Application range	Technical data			Technical data		
	Conductor [mm ²] / AWG	4 - 16 / 4 - 12	Indent crimp	10 - 70 / 8 - 00	Indent crimp	
Description	Ordering data			Ordering data		
	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Crimping pliers , for standard, uninsulated tube lugs, three marked die stations	CRIMPFOX-RCT 16	1212731	1	CRIMPFOX-RCT 25-1	1212066	1
Crimping pliers , for standard, uninsulated tube lugs, three marked die stations, unlockable pressure lock, lateral entry, 10 - 25 mm ² conductor cross section, crimping: HEX crimp				CRIMPFOX-RCT 70	1212732	1
Crimping pliers , for standard, uninsulated tube lugs, with rotatable die, 5 stations, 10 - 70 mm ² conductor cross section						

CRIMPFOX basic pliers, for accommodating various crimp inserts

- Universal crimping pliers up to 120 mm²
- Wide variety of available dies
- Easily foldable jaw holders mean that the dies can be changed quickly
- A mechanical drive system keeps the level of force required to an absolute minimum

Notes:

For matching ferrules, cable lugs, and flat plugs, see page 444 onwards.

For more dies, see www.phoenixcontact.net/products.



For dies up to 50 mm²



For dies up to 120 mm²

Ordering data						
Description	Type	Order No.	Pcs. / Pkt.	Type	Order No.	
Basic pliers , with ratchet function, for accommodating dies for various contacts Up to 50 mm ² Two-hand operation of up to 120 mm ²	CRIMPFOX-C50	1212340	1	CRIMPFOX-C120	1212318	
Accessories						
Upper part of die , for ferrules 50 mm ² , 70 mm ² , trapezoidal crimp For 95 mm ² Lower part of die , for ferrules 50 mm ² , trapezoidal crimp For 70 mm ² For 95 mm ² Die (pair) , for insulated cable lugs, 10 mm ² , oval crimp For 16 mm ² For 25 mm ² For 35 mm ² Die upper part , for uninsulated cable lugs, (DIN 46234) 6 - 35 mm ² , indent crimp For 6 - 70 mm ² Die lower part , for uninsulated cable lugs, 25 mm ² , indent crimp For 35 mm ² For 10, 16, 25, 35 mm ² For 6, 50 mm ² For 10, 70 mm ² Die (pair) , for copper tube lugs, 35 mm ² , WM crimp For 16, 35 mm ² For 50 mm ² For 25, 50 mm ² For 10, 70 mm ² For 95 mm ² For 120 mm ² Pre-round die (pair) , for sector cable, 25, 35 mm ² For 35, 50 mm ² For 50, 70 mm ² For 25, 50 mm ² For 35, 70 mm ² For 95 mm ²	CRIMPFOX-C50 RCI 10/DIE CRIMPFOX-C50 RCI 16/DIE CRIMPFOX-C50 RCI 25/DIE CRIMPFOX-C50 RC 35/M-DIE CRIMPFOX-C50 RC 25/F-DIE CRIMPFOX-C50 RC 35/F-DIE CRIMPFOX-C50 RCT 35-1/DIE CRIMPFOX-C50 RCT 50-1/DIE CRIMPFOX-C50 R25-35/DIE CRIMPFOX-C50 R35-50/DIE CRIMPFOX-C50 R50-70/DIE	1212346 1212347 1212348 1212343 1212344 1212345 1212341 1212342 1212349 1212350 1212351	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CRIMPFOX-C120 AI 70/M-DIE CRIMPFOX-C120 AI 95/M-DIE CRIMPFOX-C120 AI 50/F-DIE CRIMPFOX-C120 AI 70/F-DIE CRIMPFOX-C120 AI 95/F-DIE CRIMPFOX-C120 RCI 10/DIE CRIMPFOX-C120 RCI 16/DIE CRIMPFOX-C120 RCI 25/DIE CRIMPFOX-C120 RCI 35/DIE CRIMPFOX-C120 RC 70/M-DIE CRIMPFOX-C120 RC 35/F-DIE CRIMPFOX-C120 RC 50/F-DIE CRIMPFOX-C120 RC 70/F-DIE CRIMPFOX-C120 RCT 35-1/DIE CRIMPFOX-C120 RCT 50-1/DIE CRIMPFOX-C120 RCT 70-1/DIE CRIMPFOX-C120 RCT 95-1/DIE CRIMPFOX-C120 RCT 120-1/DIE CRIMPFOX-C120 R25-50/DIE CRIMPFOX-C120 R35-70/DIE CRIMPFOX-C120 R95/DIE	1212335 1212336 1212337 1212338 1212339 1212327 1212328 1212329 1212330 1212331 1212332 1212333 1212334 1212320 1212321 1212319 1212322 1212323 1212324 1212325 1212326	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Hand tools

**CRIMPFOX crimping pliers
for uninsulated slip-on sleeves**

N

- For processing uninsulated flat plugs and slip on sleeves with a cross section of up to 6 mm²
- Unlockable pressure lock
- Consistently high crimping quality
- Marked die stations for precise processing of the relevant cross sections

Notes:

For matching ferrules, cable lugs, and flat plugs, see page 444 onwards.

0.1 - 1.5 mm² conductor cross section0.1 - 1.5 mm² conductor cross section

Application range		Technical data			Technical data						
Conductor	[mm ²] / AWG	0.1 - 1.5 / 26 - 16		0.1 - 1.5 / 26 - 16		Ordering data		Ordering data		Ordering data	
Compression		B crimp		B crimp		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Description	Color	CRIMPFOX, for 2.8 / 4.8 / 6.3 mm uninsulated slip-on sleeves, three marked die stations, unlockable pressure lock, lateral entry	CRIMPFOX-SC 1,5	1212048	1	CRIMPFOX-SC 1,5-M	1212725	1			
Crimping pliers, compact pliers, for uninsulated slip-on sleeves, 2.8 / 4.8 / 6.3 mm, three marked die stations, unlockable pressure lock, lateral entry	black	CRIMPFOX, for 2.8 / 4.8 / 6.3 mm uninsulated slip-on sleeves, three marked die stations, unlockable pressure lock, lateral entry, incl. positioning tool	CRIMPFOX-SC 1,5	1212049	1	CRIMPFOX-SC 1,5-M	1212726	1			
Crimping pliers, compact pliers, for angled, uninsulated slip-on sleeves, marked die station, unlockable pressure lock, lateral entry	black	CRIMPFOX, compact pliers, for angled, uninsulated slip-on sleeves, marked die station, unlockable pressure lock, lateral entry	CRIMPFOX/ SPR-3	1212036	1	CRIMPFOX/ SPR-1	1212069	1			
Replacementdie		Accessories			Accessories						
Replacement recuperating spring		CRIMPFOX-SC 1,5/DIE	1212049	1	CRIMPFOX/ SPR-1	1212069	1				

0.5 - 6 mm² conductor cross section0.5 - 6 mm² conductor cross sectionFor angled slip-on sleeves,
1.0 - 2.5 mm² conductor cross section**Technical data**0.5 - 6 / 22 - 10
B crimp**Technical data**0.5 - 6 / 22 - 10
B crimp**Technical data**1 - 2.5 / 18 - 14
B crimp**Ordering data****Ordering data****Ordering data**

Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
CRIMPFOX-SC 6	1212050	1	CRIMPFOX-SC 6L	1212052	1	CRIMPFOX-SCA 2,5-M	1212726	1
CRIMPFOX-SC 6/DIE	1212051	1	CRIMPFOX-SC 6/DIE	1212051	1			
CRIMPFOX/ SPR-1	1212069	1	CRIMPFOX/ SPR-1	1212069	1	CRIMPFOX/ SPR-1	1212069	1
Accessories			Accessories			Accessories		
CRIMPFOX-SC 6/DIE	1212051	1	CRIMPFOX-SC 6/DIE	1212051	1			
CRIMPFOX/ SPR-1	1212069	1	CRIMPFOX/ SPR-1	1212069	1	CRIMPFOX/ SPR-1	1212069	1

Hand tools

**CRIMPFOX crimping pliers
for turned contacts**

- Crimping pliers for processing turned contacts of up to 10 mm²
- The integrated positioning tool ensures that the contacts are perfectly aligned in the die
- Marked die stations for precise processing of the relevant cross sections

0.5 - 4 mm² conductor cross section**Technical data**

Application range		Conductor [mm ²] / AWG	Compression
		0.5 - 4 / 22 - 12	Square crimp

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Crimping pliers , for turned contacts with a pin diameter of 1.6 / 2.5 / 4.0 mm - For CK1,6-ED ... , CK2,5-ED..., CK4,0-E D... 0.5-4 mm ² turned contacts	CRIMPFOX-TC 4	1212113	1
For conductor cross sections of 6 – 10 mm ²	CRIMPFOX-TC 10	1212114	1

Accessories

Replacement die - For CRIMPFOX-TC 4 - For CRIMPFOX-TC 10	CRIMPFOX-TC 4/DIE CRIMPFOX-TC 10/DIE	1212295 1212296	1 1
Replacement recuperating spring	CRIMPFOX/ SPR-1	1212069	1

CRIMPFOX four-mandrel crimping pliers for turned contacts, with digital display

- Crimping pliers for processing turned contacts of up to 2.5 mm²
- The integrated positioning tool ensures that the contacts are perfectly aligned in the die
- Marked die stations for precise processing of the relevant cross sections



Conductor cross sections up to 2.5 mm²



Technical data

Application range	
Conductor	[mm ²] / AWG
Compression	0.08 - 2.5 / 28 - 13 Four-mandrel crimping

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Crimping pliers , for turned contacts, universal cross section setting, up to a maximum of 2.5 mm ² , digital display with 0.01 mm increments, unlockable pressure lock, lateral entry, including positioning tool	CRIMPFOX-TC MP	1212510	1

Hand tools

**CRIMPFOX crimping pliers
for coaxial connectors**

- CRIMPFOX-CX... are crimping pliers for processing coaxial connectors
- Unlockable pressure lock
- Lateral conductor entry

Notes:

For replacement dies and retaining springs, go to the product area on the website at www.phoenixcontact.net/products.



N

Application range

Compression

PC

Technical data

Technical data

HEX crimp

HEX crimp

Ordering data

Ordering data

Description

Type

Order No.

Pcs. /
Pkt.

Crimping pliers, for:

Coaxial connector 1.69 mm, 3.25 mm, 4.52 mm, three marked die stations, pressure lock can be released, lateral entry, hex crimp

CRIMPFOX-CX 4,52

1212094

1

Crimping pliers, compact pliers, coaxial plug-in connectors, 1.69 mm, 3.25 mm, 4.52 mm, three marked die stations, unlockable pressure lock, lateral entry, Hex crimp

Crimping pliers, compact pliers, coaxial plug-in connectors, 1.69 mm, 5.41 mm, 6.48 mm, three marked die stations, unlockable pressure lock, lateral entry, Hex crimp

Crimping pliers, for: coaxial plug-in connectors, 1.69 mm, 5.41 mm, 6.48 mm, three marked die stations, unlockable pressure lock, lateral entry, Hex crimp

Crimping pliers, compact pliers, coaxial plug-in connectors, 0.7 mm, 1.07 mm, 1.69 mm, 3.25 mm, 4.52 mm, 5.41 mm, six marked die stations, unlockable pressure lock, lateral entry, Hex crimp

Crimping pliers, for: coaxial plug-in connectors, 1.73 mm, 8.23 mm, 9.14 mm, three marked die stations, unlockable pressure lock, lateral entry

Crimping pliers, for: coaxial plug-in connectors, 2.54 mm, 10.54 mm, two marked die stations, unlockable pressure lock, lateral entry

Crimping pliers, for: coaxial plug-in connectors, 2.54 mm, 10.90 mm, two marked die stations, unlockable pressure lock, lateral entry

Crimping pliers, compact pliers, coaxial plug-in connectors, 1.69 mm, 2.54 mm, 5.41 mm, 10.90 mm, four marked die stations, unlockable pressure lock, lateral entry

Crimping pliers, compact pliers, coaxial plug-in connectors, HDTV, BNC, TNC, 1.04 mm, 4.52 mm, 6.48 mm, 7.06 mm, four marked die stations, unlockable pressure lock, lateral entry

N

CRIMPFOX crimping pliers for coaxial CATV plug-in connectors

- CRIMPFOX-CATV... are crimping pliers for processing coaxial CATV plug-in connectors
- Unlockable pressure lock
- Lateral conductor entry



N



N

For 1.69 mm, 8.23 mm

For 6.65 mm, 8.23 mm, 9.70 mm

Application range

Compression

Description

Crimping pliers, for CATV connectors, RG 6.59, 1.69 mm, 8.23 mm, two marked die stations, unlockable pressure lock, lateral entry

Crimping pliers, for CATV connectors, 6.65 mm, 8.23 mm, 9.70 mm, three marked die stations, unlockable pressure lock, lateral entry

Technical data

HEX crimp

Ordering data

Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
CRIMPFOX-CATV 8,23	1212716	1	CRIMPFOX-CATV 8,23-1	1212717	1

CRIMPFOX crimping pliers

for D-SUB, coaxial, and fiber optic plug-in connectors

- CRIMPFOX-FO is a set of crimping pliers for processing fiber optic connectors
- Unlockable pressure lock
- Lateral conductor entry

Notes:

For replacement dies and retaining springs, go to the product area on the website at www.phoenixcontact.net/products.



Crimping pliers, for D-SUB contacts

Crimping pliers, for fiber optic connectors

Application range

Compression

Description

Crimping pliers

- For rolled D-SUB contacts, high-density, 0.08 mm² - 0.5 mm², incl. contact locator

- For rolled D-SUB contacts, standard, 0.05 mm² - 0.5 mm², incl. contact locator

Crimping pliers, for fiber optic connector, 3.25 mm, 3.84 mm, 4.52 mm, 5.0 mm, 5.41 mm, five marked die stations, pressure lock can be released, lateral entry

Technical data

B crimp

Ordering data

Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
CRIMPFOX-DSUB 5	1212111	1	CRIMPFOX-FO 5,41	1212099	1
CRIMPFOX-DSUB 5-1	1212711	1			

Hand tools

CRIMPFOX crimping pliers for solar connectors

- Safe crimping of MC3 and MC4 solar connectors from Multi-Contact and SOLARLOK connectors from Tyco
- Ergonomically designed grip
- Optimized mechanical transmission reduces the force required by up to 25 percent

2.5 - 6 mm² conductor cross section**Ordering data**

Description	Type	Order No.	Pcs. / Pkt.
Crimping pliers , square crimp, for MC3 solar connectors, 2.5 – 6 mm ² , unlockable pressure lock, lateral entry, with three marked die stations	CRIMPFOX-SR 6-1	1212467	1
Crimping pliers , B-crimp, for MC4 solar connectors, 2.5 – 6 mm ² , unlockable pressure lock, lateral entry, with three marked die stations	CRIMPFOX-SR 6-2	1212468	1
Crimping pliers , square crimp, for SOLARLOK solar connectors, 2.5 – 6 mm ² , unlockable pressure lock, lateral entry, with three marked die stations	CRIMPFOX-SR 6-3	1212469	1

**CRIMPFOX crimping pliers
for socket contacts**



- Crimping pliers, for crimping conductors to the STG-MTN socket contacts of the module
- Optimized mechanical transmission reduces the force required by up to 25 percent
- Four different die stations



0.5 - 2.5 mm² conductor cross section



Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Crimping pliers, for rolled contacts 0.5 – 2.5 mm ² , four labeled countersunk stations, unlockable pressure lock, side entry, for STG-MTN module and socket contacts too	CRIMPFOX MT 2,5	1204038	1
Accessories			
Replacement die	CRIMPFOX MT 2,5 DIE	1208050	1

Hand tools

CRIMPFOX universal pliers for accommodating various crimp inserts



- One of the key features of the CRIMPFOX-M crimping pliers is the way the crimp inserts can be quickly replaced without the need for tools
- The variety of inserts makes it a space-saving universal tool for all applications

Notes:

For more crimping dies for ferrules, cable lugs, slip-on sleeves, turned contacts, coaxial, RJ45, and RJ11 plugs, visit www.phoenixcontact.net/products.



Basic pliers



Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Basic pliers , for accommodating dies for various contact types, pressure lock can be unlocked, lateral entry	CRIMPFOX-M	1212072	1
Crimping pliers set , consisting of CRIMPFOX-M and dies 1212074, 1212079, 1212080, 1212081	CRIMPFOX-M SET	1212093	1



Dies for the CRIMPFOX universal pliers

Notes:

For more crimping dies for ferrules, cable lugs, slip-on sleeves, turned contacts, coaxial, RJ45, and RJ11 plugs, visit www.phoenixcontact.net/products.



Dies for CRIMPFOX-M



Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Die, for MC3 solar connectors, lateral entry, 2.5 - 6 mm ²	CRIMPFOX-M SR 6-1/DIE	1212471	1
For MC4 solar connectors, lateral entry, 2.5 - 6 mm ²	CRIMPFOX-M SR 6-2/DIE	1212472	1
For SOLARLOK solar connectors, lateral entry, 2.5 - 6 mm ²	CRIMPFOX-M SR 6-3/DIE	1212473	1
Die, for ferrules, 0.25 - 10 mm ²	CRIMPFOX-M 10/DIE	1212080	1
For 16 - 25 mm ²	CRIMPFOX-M 25/DIE	1212081	1
For 35 - 50 mm ²	CRIMPFOX-M 50/DIE	1212082	1
Die, for insulated cable lugs, 0.5 - 1.5 mm ² and 1.5 - 2.5 mm ²	CRIMPFOX-M RCI 2,5/DIE	1212074	1
For insulated cable lugs, 0.1 - 4 mm ² and 4 - 6 mm ²	CRIMPFOX-M RCI 6/DIE	1212073	1
Die, for uninsulated cable lugs, 0.75 - 2.5 mm ²	CRIMPFOX-M RC 2,5/DIE	1212078	1
For 0.5 - 6 mm ²	CRIMPFOX-M RC 6/DIE	1212079	1
For 4 - 6 and 10 mm ²	CRIMPFOX-M RC 10-1/DIE	1212744	1
For 4 - 10 mm ²	CRIMPFOX-M RC 10/DIE	1212077	1
Die, for uninsulated slip-on sleeves, 0.1 - 1 mm ²	CRIMPFOX-M SC 1/DIE	1212083	1
For 0.5 - 2.5 mm ²	CRIMPFOX-M SC 2,5/DIE	1212084	1
For 0.5 - 6 mm ²	CRIMPFOX-M SC 6/DIE	1212085	1
with wide, flat crimp for 0.5 - 6 mm ²	CRIMPFOX-M SC 6-FL/DIE	1212741	1
For angled slip-on sleeves, for 6.3 mm, 1.0 - 2.5 mm ²	CRIMPFOX-M SCA 2,5/DIE	1212742	1
For angled slip-on sleeves, for 8 mm, 1.0 - 2.5 mm ²	CRIMPFOX-M SCA 2,5-1/DIE	1212743	1
Die, For turned contacts with pin diameters 2.5 mm and 4.0 mm (CK 2.5...CK 4.0), cross section 0.14 - 4 mm ²	CRIMPFOX-M TC 4/DIE	1212075	1
For turned contacts with pin diameter 4 mm (CK 4.0...), cross section 6 - 10 mm ²	CRIMPFOX-M TC 10/DIE	1212076	1
Die, for RG 174, RG 179, BNC, TNC coaxial connectors	CRIMPFOX-M CX-1/DIE	1212087	1
For RG 58, RG 59, RG 62, RG 71, BNC, TNC	CRIMPFOX-M CX-2/DIE	1212088	1
For CATV RG 6,59	CRIMPFOX-M CX-3/DIE	1212089	1
For BNC, TNC, RG6, 1.73, 6.48, 8.23 mm	CRIMPFOX-M CX-4/DIE	1212745	1
For BNC, TNC, 0.70, 3.25, 3.85 mm	CRIMPFOX-M CX-5/DIE	1212746	1
For BNC, TNC, 1.07, 6.48, 8.23 mm	CRIMPFOX-M CX-6/DIE	1212747	1
For BNC, TNC, 1.72, 5.41 mm	CRIMPFOX-M CX-7/DIE	1212748	1
For BNC, TNC, 1.72, 8.23 mm	CRIMPFOX-M CX-8/DIE	1212749	1
Die, for unshielded RJ45 plugs	CRIMPFOX-M RJ45/DIE	1212090	1
For unshielded RJ11 plugs	CRIMPFOX-M RJ11/DIE	1212091	1
Die, for shrink connectors, 0.1 - 0.4 mm ² green and 4 - 6 mm ² yellow	CRIMPFOX-M HS-1/DIE	1212282	1
Die, for shrink connectors, 0.5 - 1.5 mm ² red and 1.5 - 2.5 mm ² blue	CRIMPFOX-M HS/DIE	1219092	1

Hand tools

CRIMPFOX universal pliers for accommodating various dies for data plugs

- One of the key features of the CRIMPFOX-C D crimping pliers is the way the crimp inserts can be quickly replaced without the need for tools
- The variety of inserts makes them a space-saving universal tool for data plug applications



Basic pliers

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Basic pliers , for accommodating dies for various contact types, pressure lock can be unlocked, lateral entry			
Die , for unshielded RJ11 plugs	CRIMPFOX-C D	1212734	1
Die , for unshielded RJ22 plugs			
Die , for unshielded RJ45 plugs			
Die , for unshielded RJ45 plugs, universal			
Die , 10-pos.			
Die , for DEC MML plugs			

N

Die for CRIMPFOX-C D

Ordering data

Type	Order No.	Pcs. / Pkt.
CRIMPFOX-C RJ11/DIE	1212735	1
CRIMPFOX-C RJ22/DIE	1212736	1
CRIMPFOX-C RJ45/DIE	1212737	1
CRIMPFOX-C RJ45U/DIE	1212738	1
CRIMPFOX-C 10P/DIE	1212739	1
CRIMPFOX-C MMJ/DIE	1212740	1

Hand tools

SCREWFOX screwdrivers for slotted-head screws



- Large contact surface of blades inside screw head
- Individually tested safety screwdrivers acc. to DIN EN 60900 (VDE 0682-201)
- For working on or in the vicinity of live parts up to 1000 V AC or 1500 V DC
- The tools feature ergonomic two-component safety handles



1000 V AC
1500 V DC

VDE flat-bladed screwdriver



Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Screwdriver , for slotted-head screws, with VDE approval			
Blade: 0.4 x 2.5 x 80 mm, length: 161 mm	SZS 0,4X2,5 VDE	1205037	10
Blade: 0.5 x 3.5 x 100 mm, length: 181 mm	SZS 0,5X3,0 VDE	1207404	10
Blade: 0.6 x 2.5 x 80 mm, length: 161 mm	SZS 0,6X2,5 VDE	1205040	10
Blade: 0.6 x 3.5 x 100 mm, length: 181 mm	SZS 0,6X3,5 VDE	1212602	10
Blade: 0.8 x 4.0 x 100 mm, length: 198 mm	SZS 0,8X4,0 VDE	1212508	1
Blade: 1.0 x 4.0 x 100 mm, length: 198 mm	SZS 1,0X4,0 VDE	1205066	10
Blade: 1.0 x 5.5 x 125 mm, length: 223 mm	SZS 1,0X5,5 VDE	1209114	10
Blade: 1.0 x 6.5 x 150 mm, length: 248 mm	SZS 1,0X6,5 VDE	1205079	10
Blade: 1.2 x 8.0 x 175 mm, length: 287 mm	SZS 1,2X8,0 VDE	1205082	10
Screwdriver , two-component handle, with non-slip grip, for slotted-head screws			
Blade: 0.4 x 2.0 x 60 mm, length: 130 mm			
Blade: 0.4 x 2.5 x 60 mm, length: 145 mm			
Blade: 0.4 x 2.5 x 75 mm, length: 161 mm			
Blade: 0.6 x 3.5 x 100 mm, length: 181 mm			
Blade: 0.6 x 3.5 x 200 mm, length: 281 mm			
Blade: 0.8 x 4.0 x 100 mm, length: 198 mm			
Blade: 1.0 x 5.5 x 150 mm, length: 248 mm			
Blade: 1.2 x 6.5 x 150 mm, length: 255 mm			
Screwdriver , two-component handle, with non-slip grip, with impact cap, with hexagon wrench aid for open-end wrench and ring wrench, for slotted-head screws			
Blade: 1.2 x 7 x 125 mm, length: 230 mm			
Blade: 1.6 x 10 x 175 mm, length: 287 mm			





Flat-bladed screwdriver, uninsulated

Applied for:
GOST

Ordering data

Type	Order No.	Pcs. / Pkt.
SF-SL 0,4X2,0-60	1212546	10
SF-SL 0,4X2,5-75	1212547	10
SF-SL 0,5X3,0-80	1212548	10
SF-SL 0,6X3,5-100	1212549	10
SF-SL 0,6X3,5-200	1212550	10
SF-SL 0,8X4,0-100	1212551	10
SF-SL 1,0X5,5-150	1212552	10
SF-SL 1,2X6,5-150	1212553	10
SF-SLIC 1,2X7,0-125	1212554	10
SF-SLIC 1,6X10-175	1212555	10

Hand tools

SCREWFOX VDE screwdriver/actuation tool for ST terminal blocks



- In addition to catering for standard applications, SF-SL ... screwdrivers are particularly suited to the assembly of modular terminal blocks
- VDE-tested, for maximum safety
- Because the insulation runs into the shaft, there is no protruding edge



1000 V AC
1000 V DC

VDE flat-bladed screwdrivers with integrated insulation



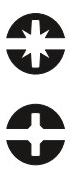
Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Screwdriver/actuation tool , for slotted-head screws/spring-cage terminal blocks, insulated, two-component handle, with non-slip grip, VDE Blade: 0.6 x 3.5 x 100 mm, length: 181 mm	SF-SL 0,6X3,5-100 S-VDE	1212587	10
Blade: 0.8 x 4.0 x 100 mm, length: 198 mm	SF-SL 0,8X4,0-100 S-VDE	1212588	10
Blade: 1.0 x 5.5 x 150 mm, length: 248 mm	SF-SL 1,0X5,5-125 S-VDE	1212589	10
Screwdriver , protective insulation integrated into shaft, insulated according to VDE Size: PZ1 x 80 mm Size: PZ2 x 100 mm			
Screwdriver , protective insulation integrated into shaft, insulated according to VDE Size: PH1 x 80 mm Size: PH2 x 100 mm			
Screwdriver , protective insulation integrated into shaft, insulated according to VDE Size: Pozidriv® - slotted (plus-minus) PZ1 x 80 mm Size: Pozidriv® - slotted (plus-minus) PZ2 x 100 mm			
Screwdriver , protective insulation integrated into shaft, insulated according to VDE Size: Phillips-Recess® - slotted (plus-minus) PH1 x 80 mm Size: Phillips-Recess® - slotted (plus-minus) PH2 x 100 mm			
Screwdriver set , protective insulation integrated into shaft, slotted/Phillips crosshead/combined profile, Pozidriv® + slotted (plus-minus), insulated according to VDE, 7-piece, including rack, set contains the following products: 0.6 x 3.5 x 100; 0.8 x 4.0 x 100; 1.0 x 5.5 x 125; PH1 x 80; PH2 x 100; PZ1 x 80; PZ2 x 100			





VDE screwdriver
with Pozidriv® or Phillips-Recess®drive



VDE screwdriver with plus-minus drive



VDE screwdriver with various drives



Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
SF-PZ 1-80 S-VDE	1212695	10						
SF-PZ 2-100 S-VDE	1212696	10						
SF-PH 1-80 S-VDE	1212693	10	SF-PZSL 1-80 S-VDE	1212699	10			
SF-PH 2-100 S-VDE	1212694	10	SF-PZSL 2-100 S-VDE	1212700	10			
			SF-PHSL 1-80 S-VDE	1212697	10			
			SF-PHSL 2-100 S-VDE	1212698	10			
						SF-SL/PH/PZ-SL SET S-VDE	1212701	1

Hand tools

SCREWFOX screwdriver and actuation tool for ST and QTC terminal blocks



– In addition to the standard application, these screwdrivers are also ideal for actuating modular terminal blocks from the ST ... and QTC ... series



Flat-bladed screwdriver, uninsulated



Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Screwdriver/actuation tool , for slotted-head screws/spring-cage terminal blocks Blade: 0.4 x 2.5 x 75 mm, length: 156 mm	SZF 0-0,4X2,5	1204504	10
Blade: 0.6 x 3.5 x 100 mm, length: 181 mm	SZF 1-0,6X3,5	1204517	10
Blade: 0.8 x 4.0 x 100 mm, length: 198 mm	SZF 2-0,8X4,0	1204520	10
Blade: 1.0 x 5.5 x 150 mm, length: 248 mm	SZF 3-1,0X5,5	1206612	10
Screwdriver/actuation tool , for slotted-head screws/spring-cage terminal blocks, insulated Blade: 0.6 x 3.5 x 100 mm, length: 181 mm	SZS 0,6X3,5	1205053	10
Actuation tool, insulated , for all 2.5 mm ² and 4 mm ² ST spring-cage terminal blocks, plus push-in and QT fast connection terminal blocks			





Actuation tool for push-in technology,
ST and QTC terminal blocks

P

Ordering data

Type	Order No.	Pcs. / Pkt.
ST-BW	1207608	10

Hand tools

SCREWFOX screwdrivers for Phillips and slotted-head screws



Notes:

Pozidriv®/Supadriv®, trademarks of European Ind. Serv. Ltd.
Phillips Recess®, trademark of Phillips Screw Company



VDE Phillips screwdriver with Pozidriv® drive



Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Screwdrivers , for Pozidriv®/Supadriv® Phillips screws, VDE approval Size: PZ0 x 80 mm, length: 161 mm Size: PZ1 x 80 mm, length: 178 mm Size: PZ2 x 100 mm, length: 205 mm Size: PZ3 x 150 mm, length: 262 mm	SZK PZ0 VDE SZK PZ1 VDE SZK PZ2 VDE SZK PZ3 VDE	1206447 1206450 1206463 1212599	10 10 10 10
Screwdrivers , for Phillips Recess® screws, VDE approval Size: PH0 x 80 mm, length: 161 mm Size: PH1 x 80 mm, length: 178 mm Size: PH2 x 100 mm, length: 205 mm Size: PH3 x 150 mm, length: 262 mm	SZK PH0 VDE SZK PH1 VDE SZK PH2 VDE SZK PH3 VDE	1205147 1205150 1205163 1212536	10 10 10 10
Screwdrivers , for Pozidriv® Phillips screws Size: PZ0 x 60 mm, length: 141 mm Size: PZ1 x 80 mm, length: 178 mm Size: PZ2 x 100 mm, length: 205 mm Size: PZ3 x 150 mm, length: 262 mm			
Screwdrivers , for Phillips Recess® screws Size: PH0 x 60 mm, length: 141 mm Size: PH1 x 80 mm, length: 178 mm Size: PH2 x 100 mm, length: 205 mm Size: PH3 x 150 mm, length: 262 mm			
Screwdriver , for Pozidriv®/Supadriv® Phillips screws, VDE approval Size: PZ1 x 80 mm, length: 178 mm Size: PZ2 x 100 mm, length: 205 mm Size: PH1 x 80 mm, length: 178 mm Size: PH2 x 100 mm, length: 205 mm			
Screwdriver , for test socket screws, with VDE approval For 2.3 mm Ø screw, blade: 0.6 x 3.5 x 100 mm, length: 198 mm For 4 mm Ø screw, blade: 0.9 x 6.5 x 175 mm, length: 287 mm			





Phillips screwdriver with Pozidriv® drive



VDE screwdriver with plus/minus drive



VDE screwdriver for test socket screws

Applied for:
GOST



Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
SF-PZ 0-60	1212562	10						
SF-PZ 1-80	1212563	10						
SF-PZ 2-100	1212564	10						
SF-PZ 3-150	1212565	10						
SF-PH 0-60	1212558	10						
SF-PH 1-80	1212559	10						
SF-PH 2-100	1212560	10						
SF-PH 3-150	1212561	10						
			SF-PZSL 1-80 VDE	1212556	10			
			SF-PZSL 2-100 VDE	1212557	10			
			SF-PHSL 1-80 VDE	1212283	10			
			SF-PHSL 2-100 VDE	1212288	10			
						SZG 0,6X3,5 VDE	1205121	10
						SZG 0,9X6,5 VDE	1205134	10

Hand tools

SCREWFOX torque screwdrivers



- Torque screwdrivers with hexagonal quick connection holder
- High-precision, finely adjustable torque screwdrivers according to EN ISO 6789
- TSD-M ... torque screwdrivers are adjustable from 0.3 - 6.0 Nm
- The figure below shows the TSD-M 6NM version



Torque screw driver, 0.3 - 1.2 Nm, adjustable



Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Torque screwdrivers Adjustable from 0.3 - 1.2 Nm Adjustable from 1.2 - 3 Nm Adjustable from 3 - 6 Nm	TSD-M 1,2NM TSD-M 3NM TSD-M 6NM	1212224 1212225 1212226	1 1 1
Accessories			
Battery-powered screwdriver bit set , 1 attachment set each in 5.5 mm, 8 mm, 13 mm, adapter to $\frac{1}{4}$ "	ASD BIT SET HN	1209952	1
Socket wrench insert , magnetic, hexagonal, $\frac{1}{4}$ " drive, suitable for holders according to DIN 3126-F 6.3 / ISO 1173	BHN 5,5 BHN 8 BHN 10 BHN 13	1209965 1209978 1209981 1209994	1 1 1 1
Adapter for $\frac{1}{4}$"	BF 6,3	1209936	1
Adapter insert , for torque screwdrivers with adjustable torque, for accommodating SAC nuts for 4 mm hexagonal screwdrivers	TSD-M SAC-BIT ADAPTER	1212600	1



SCREWFOX cordless screwdriver

- Cordless screwdriver with two-speed gearbox, forward/reverse running, and 21-stage clutch with drilling stage of up to 600 rpm
- 6.3 mm hexagonal quick connection drill chuck
- Integrated LEDs are used to illuminate the working area
- Torque accuracy of ± 5 percent
- Adjustable from 0.3 - 4.4 Nm
- With optional snap-on protective cap to prevent unintentional torque adjustment

**21 different torque stages**

Applied for:
GOST

Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Cordless screwdriver , 3.6 V, incl. rechargeable battery, 1.5 Ah	SF-ASD 21	1212532	1
Cordless screwdriver set , incl. two rechargeable batteries and charger, 230 V	SF-ASD 21 SET 230V	1212530	1
Accessories			
Universal bit holder , E6.3-1/4" drive, with automatic locking, one-hand operation, magnetic, for bits according to DIN 3126 C 6.3 and E 6.3	SF-UBH	1212590	1
Replacement charger , for SF-ASD 21 cordless screwdriver, 230 V	SF-ASD 21/CHARGER 230V	1212535	1
Replacement battery , for SF-ASD 21, 1.5 Ah	SF-ASD 21/ACCU 1,5 AH	1212533	1



Hand tools

SCREWFOX tool inserts for cordless screwdriver and bit handle



- Tools for SF-ASD 21 cordless screwdriver, various designs
- The hardened bits are suitable for hard and soft screws
- Optimum edge geometries increase the bearing surface and prevent the screws from being over-tightened

Notes:

Pozidriv®/Supadriv®, trademarks of European Ind. Serv. Ltd.
Phillips Recess®, trademark of Phillips Screw Company
Torx®, trademark of Acument Intellectual Properties, LLC, Troy, Mich., US



Universal bit holder

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Universal bit holder , E6.3-1/4" drive, with automatic locking, one-hand operation, magnetic, for bits according to DIN 3126 C 6.3 and E 6.3				
Screw bit , slotted, E6.3-1/4" drive, hardened, suitable for holder according to DIN 3126-F 6.3/ISO 1173	silver	SF-UBH	1212590	1
Size: 0.5 x 3.0 x 50 mm	silver			
Size: 0.5 x 3.0 x 70 mm	silver			
Size: 0.6 x 3.5 x 50 mm	silver			
Size: 0.6 x 3.5 x 70 mm	silver			
Size: 0.8 x 4.0 x 50 mm	silver			
Size: 0.8 x 4.0 x 70 mm	silver			
Size: 1.0 x 5.5 x 50 mm	silver			
Size: 1.0 x 5.5 x 70 mm	silver			
Size: 1.2 x 6.5 x 70 mm	silver			
Screw bit , PH cross, E6.3-1/4" drive, hardened, suitable for holder according to DIN 3126-F 6.3/ISO 1173				
Size: PH 1 x 50 mm	silver			
Size: PH 2 x 50 mm	silver			
Size: PH 3 x 50 mm	silver			
Size: PH 1 x 70 mm	silver			
Size: PH 2 x 70 mm	silver			
Size: PH 3 x 70 mm	silver			
Screw bit , PZ cross, E6.3-1/4" drive, hardened, suitable for holder according to DIN 3126-F 6.3/ISO 1173				
Size: PZ 1 x 50 mm	silver			
Size: PZ 2 x 50 mm	silver			
Size: PZ 3 x 50 mm	silver			
Size: PZ 1 x 70 mm	silver			
Size: PZ 2 x 70 mm	silver			
Size: PZ 3 x 70 mm	silver			
Screw bit , PZ/slotted plus/minus, E6.3-1/4" drive, hardened, suitable for holder according to DIN 3126-F 6.3/ISO 1173				
Size: PZ 1 x 70 mm	silver			
Size: PZ 2 x 70 mm	silver			
Size: PH 1 x 70 mm	silver			
Size: PH 2 x 70 mm	silver			
Screw bit , slotted, graduated, E6.3-1/4" drive, for test socket screws, hardened, suitable for holder according to DIN 3126-F 6.3/ISO 1173				
Size: 0.6 x 3.5 x 50 mm	silver			
Size: 0.9 x 6.5 x 50 mm	silver			





Screw bit, slotted



Screw bit, PH and PZ cross-recessed



Screw bit, plus/minus

Applied for:
GOSTApplied for:
GOSTApplied for:
GOST

Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
SF-BIT-SL 0,5X3,0-50	1212566	5	SF-BIT-PH 1-50	1212579	5	SF-BIT-PZSL 1-70	1212603	5
SF-BIT-SL 0,5X3,0-70	1212567	5	SF-BIT-PH 2-50	1212580	5	SF-BIT-PZSL 2-70	1212604	5
SF-BIT-SL 0,6X3,5-50	1212568	5	SF-BIT-PH 3-50	1212581	5	SF-BIT-PHSL 1-70	1212479	5
SF-BIT-SL 0,6X3,5-70	1212569	5	SF-BIT-PH 1-70	1212582	5	SF-BIT-PHSL 2-70	1212601	5
SF-BIT-SL 0,8X4,0-50	1212571	5	SF-BIT-PH 2-70	1212583	5			
SF-BIT-SL 0,8X4,0-70	1212572	5	SF-BIT-PH 3-70	1212584	5			
SF-BIT-SL 1,0X5,5-50	1212574	5	SF-BIT-PZ 1-50	1212591	5			
SF-BIT-SL 1,0X5,5-70	1212575	5	SF-BIT-PZ 2-50	1212592	5			
SF-BIT-SL 1,2X6,5-70	1212577	5	SF-BIT-PZ 3-50	1212593	5			
			SF-BIT-PZ 1-70	1212594	5			
			SF-BIT-PZ 2-70	1212595	5			
			SF-BIT-PZ 3-70	1212596	5			
SF-BIT-SLS 0,6X3,5-50	1212605	5						
SF-BIT-SLS 0,9X6,5-50	1212606	5						

Hand tools

SCREWFOX tool inserts for cordless screwdriver and bit handle

- Tools for SF-ASD 21 cordless screwdriver, various designs
- The hardened bits are suitable for hard and soft screws
- Optimum edge geometries increase the bearing surface and prevent the screws from being over-tightened



Screw bit, Torx®

Applied for:
GOST**Ordering data**

Description	Color	Type	Order No.	Pcs. / Pkt.
Screw bit , Torx®, E6.3-1/4" drive, hardened, suitable for holder according to DIN 3126-F 6.3 / ISO 1173, size: TX 8 x 50 mm				
Size: TX 10 x 50 mm	silver	SF-BIT-TX 8-50	1212570	5
Size: TX 15 x 50 mm	silver	SF-BIT-TX 10-50	1212573	5
Size: TX 20 x 50 mm	silver	SF-BIT-TX 15-50	1212576	5
Size: TX 20 x 50 mm	silver	SF-BIT-TX 20-50	1212578	5
Screw bit , hexagonal, E6.3-1/4" drive, hardened, suitable for holder according to DIN 3126-F6.3/ISO 1173				
Size: hex 2 x 50 mm	silver			
Size: hex 2.5 x 50 mm	silver			
Size: hex 3 x 50 mm	silver			
Size: hex 4 x 50 mm	silver			
Size: hex 5 x 50 mm	silver			
Size: hex 6 x 50 mm	silver			
Size: hex 8 x 50 mm	silver			



Screw bit, hex

Ordering data

Type	Order No.	Pcs. / Pkt.
SF-BIT-HEX 2-50	1212645	5
SF-BIT-HEX 2,5-50	1212646	5
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
SF-BIT-HEX 5-50	1212649	5
SF-BIT-HEX 6-50	1212650	5
SF-BIT-HEX 8-50	1212651	5

Hand tools

SCREWFOX socket wrenches



SHN ...

- Ergonomically designed two-component grip for fatigue-proof and non-slip use

SF-THEX ...

- Ergonomically designed handles ensure an optimum grip and help avoid fatigue when working
- The hardened blades are designed for durability
- Optimum edge geometries increase the bearing surface and prevent the screws from being over-tightened

VDE-ISS ...

- VDE-insulated Allen wrench with double-layer insulation, for twice the level of safety

Allen screw set

- Offset screwdriver set in convenient holder
- The strict fabrication tolerances and special hardening process ensure reliability and optimum work results
- The ball head on the long limb makes it possible to carry out work in hard-to-access areas



**Hexagon insert bit,
wrench size of 5.5 / 8 / 13 mm**

Applied for:
GOST

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Socket wrench, hexagon Wrench size of 5.5 mm Wrench size of 8 mm Wrench size of 13 mm	SHN 5.5 SHN 8 SHN 13	1209855 1209868 1209923	1 1 1
T-handle screwdriver , for Allen screws, ergonomically shaped handle, matt chrome-plated Size: hex 2 x 100 mm Size: hex 2.5 x 100 mm Size: hex 3 x 100 mm Size: hex 4 x 150 mm Size: hex 5 x 150 mm Size: hex 6 x 200 mm Size: hex 8 x 200 mm Size: hex 10 x 200 mm Allen wrench , fully insulated, safety tool in accordance with EN 60900, length: 150 mm, handle width: 110 mm			
Wrench size 5 mm, for M6 screws Wrench size 6 mm, for M8 screws Wrench size 8 mm, for M10 screws			
Allen wrench set , 9-part, 1.5 to 10.0 mm, chrome-plated matt finish, with ball head, incl. bracket			





Allen screw, wrench size 2 - 10 mm



Allen screw (VDE), wrench size of 5 / 6 / 8 mm



Allen screw, L-shaped, 1.5 - 10 mm

Applied for:
GOST

Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
SF-THEX 2-100	1212637	5	VDE-ISS 5	1203343	1	SF-LHEX SET	1212544	1
SF-THEX 2,5-100	1212638	5	VDE-ISS 6	1201934	1			
SF-THEX 3-100	1212639	5	VDE-ISS 8	1201947	1			
SF-THEX 4-150	1212640	5						
SF-THEX 5-150	1212641	5						
SF-THEX 6-200	1212642	5						
SF-THEX 8-200	1212643	5						
SF-THEX 10-200	1212644	5						

Hand tools

SCREWFOX preset torque screwdrivers



- TSD ... SAC torque screwdrivers with a range of preset torques from 0.2 Nm to 2.5 Nm
- A wide variety of SAC ... nuts for all kinds of applications
- With the TSD-M... torque screwdrivers, the torque can be custom-set
- The TSD-M... adapters can accommodate the various nuts



Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Torque screwdriver With preset torque of 0.2 Nm and 4 mm hexagonal drive	TSD 02 SAC	1208487	1
With preset torque of 0.4 Nm and 4 mm hexagonal drive	TSD 04 SAC	1208429	1
With preset torque of 0.8 Nm and a 4 mm hexagonal drive	TSD 08 SAC	1212597	1
With preset torque of 2.0 Nm and 4 mm hexagonal drive	TSD 20 SAC	1212020	1
With preset torque of 2.5 Nm and 4 mm hexagonal drive	TSD 25 SAC	1212315	1
Torque screwdrivers Adjustable from 0.3 - 1.2 Nm Adjustable from 1.2 - 3 Nm Adjustable from 3 - 6 Nm Adapter insert , for torque screwdrivers with adjustable torque, for accommodating SAC nuts for 4 mm hexagonal screwdrivers	TSD-M 1,2NM TSD-M 3NM TSD-M 6NM	1212224 1212225 1212226	1 1 1
	TSD-M SAC-BIT ADAPTER	1212600	1
Accessories			
Nut For assembling sensor/actuator cables with M8 plug-in connectors and for M8 plug-in connectors with insulation displacement connection, for 4 mm hexagonal screwdriver	SAC BIT M8-D10	1208461	1
For assembling SACC M8 plug-in connectors with longitudinal knurl, excluding those with insulation displacement connection, for 4 mm hexagonal screwdriver	SACC BIT M8-D12	1208474	1
For assembling sensor/actuator cables with M12 plug-in connectors and for M12 plug-in connectors with insulation displacement connection, for 4 mm hexagonal screwdriver	SAC BIT M12-D15	1208432	1
For assembling SACC M12 plug-in connectors, excluding those with insulation displacement connection, for 4 mm hexagonal screwdriver	SACC BIT M12-D20	1208445	1
For mounting M12 plug-in connectors with hexagonal stainless steel knurl, wrench size 14, with 4 mm hexagonal drive	SAC BIT M12-W14	1212513	1
For assembling 7/8" connectors, with 4 mm hexagonal drive	SAC BIT MIN-D25	1212512	1
For the reliable tightening of the pressure nuts with a wrench size of 13 mm, for 4 mm hexagonal screwdriver	SAC BIT QUICKON-W13	1212033	1
For reliable tightening of the pressure nuts with a wrench size of 24 mm, for 4 mm hexagonal screwdriver	SAC BIT HOOD-W 24	1212486	1

SCREWFOX universal control cabinet key



1



2



3

- Universal control cabinet key with the following closures:
 1 = 6 mm, 8 mm square
 2 = 8 mm triangle
 3 = 5 mm two-way key bit



Four-way closure

Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Control cabinet key, metal, for all common types of control cabinet	USS 4	1203149	1

SCREWFOX universal control cabinet key



1



2



3



4



Nine-way closure

Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Control cabinet key, metal, for all common types of control cabinet	SF-CCK 9	1212525	1

- **Universal control cabinet key**, with strong chain and snap hook, for the following closures:
 1 = 5, 6, 7-8, 9-10 mm square
 2 = 7, 8 - 9, 10 - 11 mm triangle
 3 = 3-5 mm two-way key bit
 4 = 6 mm semicircle

Hand tools

TESTFOX phasing and voltage tester

The PROFIPOLO voltage tester has the following features:

- DC and AC voltage tests in the range between 6 V and 400 V
- Polarity test (+/-) for DC voltage
- Shock-proof housing that is protected against dust and splash water, IP65
- LED display



Single-position voltage tester



Two-position voltage tester

General data	
Voltage range	[V DC]
Voltage range	[V AC]
Voltage tester , single-position, for 150 - 250 V, conforms to DIN 57680/6 and VDE 0680/6, can also be used as an actuation tool for spring-cage terminal blocks, VDE insulated, with non-slip grip, size: 0.5 x 3.0 x 70 mm	
Description	Color
Voltage tester	black

Technical data			Technical data		
-			6 ... 400 6 ... 400		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
SF-VT VDE	1212598	10	PROFIPOLO	1209101	1

TESTFOX voltage and continuity tester



- Acoustic and optical continuity test
- Load connection using a pushbutton
- Vibration alarm for safe voltage detection
- Shock-proof housing that is protected against dust and splash water, IP65
- Surge voltage category CAT IV 600 V and CAT III 1000 V according to IEC/EN 61243-3:2011



- DC and AC voltage tests in the range from 12 V to 1000 V AC/1100 V DC, fully functional even without batteries
- Polarity test (+/-) for DC voltage
- Single-pos. test of the phase conductor (phase): "R" symbol in the display field for AC voltage
- Indicator for rotary field direction of a three-phase network as long as the star point is grounded
- Measuring point lighting

Technical data				
-				
Description	Color	Type	Order No.	Pcs. / Pkt.
Voltage tester	black	DUSPOL EXPERT	1209091	1

TESTFOX, digital current probe multimeter

- The current probes can be used for voltages of up to 600 V, category III
- They combine the functions of a digital multimeter with those of a current probe
- Contained within a compact and practical housing, so ideal for use in cramped conditions
- All measuring ranges are protected against overload



For AC current



For DC and AC current



Technical data

Technical data

General data

Display scope
Accuracy of display
AC voltage measuring range
DC voltage measuring range
AC current measuring range
DC current measuring range
Resistance measuring range
Continuity test range
Degree of protection
Measuring category
Voltage supply
Test certificate

2000 digits
1,0 %
0.1 V ... 600 V
0.1 V ... 600 V
0.1 A ... 400 A
- ... -
0.1 Ω ... 20 MΩ
Acoustic (20 Ω)
IP30
CAT III 600 V
2 x micro battery 1.5 V, LR03, AAA
IEC/EN 61010-1, DIN VDE 0411

4000 digits
0,5 %
0.1 mV ... 600 V
0.1 mV ... 600 V
10 mA ... 300 A
10 mA ... 300 A
0.1 Ω ... 40 MΩ
Acoustic (50 Ω)
IP30
CAT III 300 V / CAT II 600 V
2 x micro battery 1.5 V, LR03, AAA
IEC/EN 61010-1, DIN VDE 0411

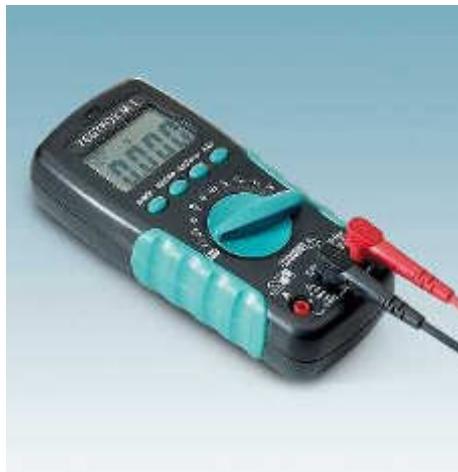
Ordering data

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Current pliers/multimeter	black	TESTFOX CC	1212210	1			
Current pliers/multimeter	black				TESTFOX CC-1	1212211	1

Hand tools

TESTFOX digital multimeter



- You are bound to be enthused by the technology of the digital multimeters and impressed by their quality
- The devices are extremely versatile
- Tested and approved according to applicable IEC/EN 61010 standards independently of certification body
- Suitable for measuring AC voltages and resistance as well as testing continuity and diodes
- TESTFOX M-1 also allows you to measure DC and AC currents, capacitance, and frequencies, as well as temperatures within the range of -20°C to +80°C

High-level safety

- Phase voltages can be detected precisely thanks to the audible and red light signals
- The devices can be used for voltages of up to 600 V category III or 1000 V category II
- They provide professional service technicians and operating engineers with a higher level of protection, thereby ensuring maximum safety during work

Safe cable breakage detection

- Cable breaks and faulty lamps in exposed cables can be traced from the phase in-feed side right through to the point of interruption



For DC and AC voltages



Technical data

General data

Display scope	2000 digits
Accuracy of display	0.5%
Volt sensor	yes
AC voltage measuring range	0.1 mV ... 750 V
DC voltage measuring range	0.1 mV ... 1000 V
AC current measuring range	- ... -
DC current measuring range	- ... -
Resistance measuring range	0.1 Ω ... 20 MΩ
Continuity test range	Yes (25 Ω)
Frequency measuring range	- ... -
Capacity measuring range	- ... -
Temperature measuring range	- ... -
Diode test	Yes (1.5 mA)
Degree of protection	IP30
Measuring category	CAT III 600 V / CAT II 1000 V
Voltage supply	2 x micro battery 1.5 V, LR03, AAA
Test certificate	IEC/EN 61010-1, DIN VDE 0411

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Digital multimeter	black	TESTFOX M	1212208	1
Digital multimeter	black			



For DC and AC voltages/currents



Technical data

2000 digits
0.5%
yes
0.1 mV ... 750 V
0.1 mV ... 1000 V
1 mA ... 10 A
1 mA ... 10 A
0.1 Ω ... 20 MΩ
Yes (25 Ω)
1 Hz ... 20 MHz
1.00 pF ... 2.00 mF
-20°C ... 800°C
Yes (1.5 mA)
IP30
CAT III 600 V / CAT II 1000 V
2 x micro battery 1.5 V, LR03, AAA
IEC/EN 61010-1, DIN VDE 0411

Ordering data

Type	Order No.	Pcs. / Pkt.
TESTFOX M-1	1212209	1

Tools - TOOL fox

Hand tools

TOOL fox, tool sets for convenient use on site

- Universal tool sets, with cutting, stripping, crimping, and testing tools from the TOOL fox tool range
- Robust and heavy-duty tool bags
- For further sets, visit www.phoenixcontact.net/products



Tool set in a case



Tool set in a carry case wrap

Applied for:
GOST

Applied for:
GOST

Description	Ordering data			Ordering data		
	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Tool case , equipped with one of each of the following tools: CRIMPFOX 6S-F WIREFOX 10 WIREFOX-D 40 CUTFOX 18 SZF 1-0,6X3,5 5 m tape measure 50 pcs. JBC 2,5/S junction box connectors TOOL-KIT STANDARD EMPTY	TOOL-KIT STANDARD	1212422	1			
Tool case , empty	TOOL-KIT STANDARD EMPTY	1212423	1	TOOL-WRAP	1212505	1
Tool carry case wrap , equipped with one of each of the following tools: CUTFOX-S VDE CUTFOX 16 VDE UNIFOX-C VDE UNIFOX-P VDE Szs 0,4X2,5 Szs 0,5X3,0 Szs 1,0X4,0 Szs 1,0X6,5 SZK PH0 SZK PH1 SZK PH2 PROFIPOL TOOL.WRAP EMPTY				TOOL-WRAP EMPTY	1212501	1
Tool carry-on bag , empty						
Tool belt pouch , equipped with one of each of the following tools: CUTFOX-S VDE CUTFOX 18 WIREFOX-D 13 UNIFOX-CE VDE USS 4 Szs 0,5X3,0 Szs 1,0X4,0 Szs 1,0X5,5 SZK PH1 SZK PH2 Cutting knife 5 m tape measure PROFIPOL TOOL-BELTPOUCH EMPTY						
Tool belt pouch , empty						
Tool bag , equipped with one of each of the following tools: CUTFOX S VDE CUTFOX 18 WIREFOX 10 VDE WIREFOX-D 13 WIREFOX-D 28 CRIMPFOX-M CRIMPFOX-M 10/DIE UNIFOX-CE VDE UNIFOX-P VDE UNIFOX WP Szs 0,4X2,5 Szs 0,5X3,0 Szs 1,0X4,0 Szs 1,0X6,5 SZK PH0 SZK PH1 SZK PH2 PROFIPOL USS 4 Cutting knife 5 m tape measure TOOL CARRIER EMPTY						
Tool bag , empty						
Tool bag , with laptop and document compartments, equipped with one of each of the following tools: CUTFOX 25 VDE CUTFOX-S VDE WIREFOX 10 WIREFOX-D 40 CRIMPFOX-M SET UNIFOX-C VDE UNIFOX-P VDE UNIFOX WP Szs 0,4X2,5 Szs 0,5X3,0 Szs 1,0X4,0 Szs 1,0X6,5 SZK PH0 SZK PH1 SZK PH2 DUSPOL EXPERT USS 4 AI SORTI BOX RD Cutting knife 5 m tape measure TOOL-BAG EMPTY						
Tool bag , with document and laptop compartments, empty						



Tool set in a belt pouch



Tool set in a shoulder bag



Tool set in a bag with laptop and document compartments

Applied for:
GOSTApplied for:
GOSTApplied for:
GOST

Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
TOOL-BELTPOUCH	1212506	1	TOOL-CARRIER	1212503	1	TOOL-BAG	1212504	1
TOOL-BELTPOUCH EMPTY	1212502	1	TOOL-CARRIER EMPTY	1212499	1	TOOL-BAG EMPTY	1212500	1

Hand tools

TOOL fox, tool sets

- We have put together a number of attractive tool sets for you by selecting products from our comprehensive range of professional tools



Applied for:
GOST

Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Stripping, crimping, and cutting set , consisting of: cable cutter for copper and aluminum up to 12 mm Ø, stripping tool for stripping multicores signal, control, and fiberglass wires of Ø 2.5 – 11 mm, insulation thickness up to 1 mm, Basic pliers for accommodating dies for different contact types, die, for CRIMPFOX-M, for unshielded RJ45 plugs	TOOL DATA SET	1208856	1
Cutting, stripping, and crimping set , consisting of: cable cutter for copper and aluminum up to Ø 12 mm, stripping tool for cables and conductors with a cross section of 0.02 – 10 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm² stranded/1.5 mm² solid, crimping pliers for ferrules measuring 0.14 – 10 mm²			
Stripping, crimping, and screwing set , consisting of: screwdriver for slotted-head screws, stripping tool for 0.02 – 10 mm² cables and conductors, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm² stranded/1.5 mm² solid, crimping pliers for ferrules acc. to DIN 46228 Parts 1+4, 0.5 – 6 mm², front insertion, square crimping Ferrules, CSA-certified, 50 pcs. each of: AI 0.5-8 WH, AI 2.5-8 BU Ferrules, CSA-certified, 100 pcs. each of: AI 0.75-8 GY, AI 1-8 RD, AI 1,5-8 BK			
Range box , made of metal, equipped with ferrules in accordance with DIN 46228-4: 1990-09, CSA-certified 500 pieces each of AI 0,25-6 YE, AI 0,34-6 TQ, AI 0,5-8 WH, AI 0,75-8 GY, AI 1-8 RD, AI 1,5-8 BK, 300 pieces of AI 2,5-8 BU, 200 pieces of AI 4-10 GY, 100 pieces of AI 6-12 YE as well as stripping tool for wires and conductors of up to 6 mm² Crimp pliers for ferrules in accordance with DIN 46228, Part 1+4, 0.5 – 6 mm², front insertion, trapezoidal crimp			
Range box , made of metal, equipped with ferrules in accordance with DIN 46228-4: 1990-09, CSA-certified 300 pieces of AI 10-12 RD, 200 pieces of AI 16-12 BU, 100 pieces of AI 25-16 YE as well as stripping tool, for stripping cables of 4.5 - 40 mm, crimping pliers for ferrules in accordance with DIN 46228, Part 1+4, 10 - 25 mm², lateral insertion, WM crimp			
Assortment box , metal, no components mounted			



Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
TOOL SET ALLROUND 2	1208843	1	TOOL-SET ALLROUND 3	1208953	1	CRIMPSET 6	1202072	1
						CRIMPSET 25	1202580	1
						CRIMPSET 6/25 LEER	1204041	1

Hand tools

TOOL fox, screwdriver set



- The SF-SL ... screwdriver sets are available with a variety of contents
- Wall-mountable screwdriver rack included

Notes:

Pozidriv®/Supadriv®, trademarks of European Ind. Serv. Ltd.
Phillips Recess®, trademark of Phillips Screw Company
Torx®, trademark of Acument Intellectual Properties, LLC, Troy, Mich., US



Applied for:
GOST

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Screwdriver set , slotted/Phillips Recess®, 6-part, incl. rack, contents: 0.5 x 3.0 x 80; 0.8 x 4.0 x 100; 1.0 x 5.5 x 150; 1.2 x 6.5 x 150, PH 1, PH 2	SF-SL/PH SET	1212541	1
Screwdriver set , slotted/Pozidriv® cross-recessed, 6-part, incl. rack, contents: 0.5 x 3.0 x 80; 0.8 x 4.0 x 100; 1.0 x 5.5 x 150; 1.2 x 6.5 x 150, PZ 1, PZ 2	SF-SL/PZ SET	1212542	1
Screwdriver set , slotted/Pozidriv® cross-recessed, VDE insulated, 6-part, incl. rack, contents: 0.4 x 2.5 x 80; 0.6 x 3.5 x 100; 0.8 x 4.0 x 100; 1.0 x 5.5 x 125; PZ 1, PZ 2	SF-SL/PZ SET VDE	1212540	1
Screwdriver set , protective insulation integrated into shaft, slotted/Phillips crosshead/combined profile, Pozidriv® + slotted (plus-minus), insulated according to VDE, 7-piece, including rack, set contains the following products: 0.6 x 3.5 x 100; 0.8 x 4.0 x 100; 1.0 x 5.5 x 125; PH1 x 80; PH2 x 100; PZ1 x 80; PZ2 x 100	SF-SL/PH/PZ-SL SET S-VDE	1212701	1
Screwdriver set , Torx® with drill bit, 6-part, incl. rack, contents: TX 8 x 60; TX 10 x 80; TX 15 x 80; TX 20 x 100; TX 25 x 100; TX 30 x 115	SF-TXH SET	1212538	1
Screwdriver set , Torx®, VDE insulated, 6-part, incl. rack, contents: TX 8 x 80; TX 10 x 80; TX 15 x 80; TX 20 x 80; TX 25 x 100; TX 30 x 100	SF-TX SET VDE	1212537	1



TOOL fox, bit set

- Bit set, in compact plastic box, with quick-change bit holder and the following 25 mm long bits: 0.8 x 5.5, 1.0 x 5.5, 1.2 x 6.5, PH1, PH2, PH3, PZ1, PZ2, PZ3
- Clearly arranged storage
- Bits can be accessed quickly thanks to convenient, one-handed opening mechanism
- Equipped with hardened bits for durability



Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Bit set , with SF-UBH universal bit holder, 25 mm long slotted/cross-recessed (PZ and PH) bits, 10-part	SF-BIT SET	1212545	10
Battery-powered screwdriver bit set , 1 attachment set each in 5.5 mm, 8 mm, 13 mm, adapter to 1/4"	ASD BIT SET HN	1209952	1

TOOL fox, screwdriver set

- Bit screwdriver set, packed in a practical belt pouch
- Equipped with the most common types of screw bit

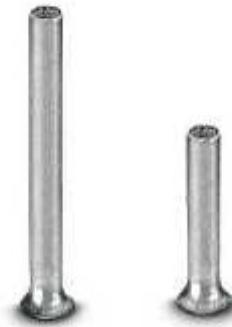
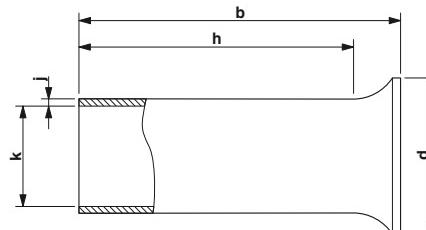


Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Bit screwdriver set with quick-action chuck , 89 mm long slotted/cross-recessed (PZ and PH)/hex / Torx® bits, 17-part, in folding belt pouch, contents: PH 1,2,3 x 89; PZ 1,2,3 x 89; SL 1.5 x 5.5 x 89; TX 10-30 x 89; SW 3,4,5,6 x 89	SF-M SET	1212543	1

Hand tools

Ferrules without insulating collar, according to DIN 46228-1

- The ferrules without plastic sleeve are made from soft tin-plated electrolytic copper
- The dimensions of the ferrules conform to DIN 46228-1
- The A 0,25.. can also be used to process conductors with a cross section of 0.14 mm²



Notes:

¹⁾ These ferrules are not included in DIN 46228-4:1990-09.

Conductor cross sections from 0.14 to 35 mm²



General data

Material / coating

Technical data

Technical data

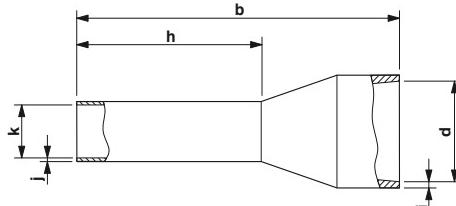
E-CU / tin-plated (galvanic)

Ordering data

Description	Cross section [mm ²]	AWG	Color	a	b	d	h	i	j	k	Type	Order No.	Pcs. / Pkt.
Ferrules, without plastic sleeves, CSA-certified													
	0.25 ¹⁾	24	silver	-	5.00	1.70	4.30	-	0.15	0.80	A 0,25-5	3202465	1000
	0.25 ¹⁾	24	silver	-	7.00	1.70	6.30	-	0.15	0.80	A 0,25-7	3202478	1000
	0.34 ¹⁾	22	silver	-	7.00	1.80	6.30	-	0.15	0.90	A 0,34-7	3009022	1000
	0.5	20	silver	-	6.00	2.10	5.30	-	0.15	1.00	A 0,5-6	3200218	1000
	0.5 ¹⁾	20	silver	-	8.00	2.10	7.30	-	0.15	1.00	A 0,5-8	3202481	1000
	0.5	20	silver	-	10.00	2.10	9.30	-	0.15	1.00	A 0,5-10	3202494	1000
	0.75	18	silver	-	6.00	2.30	5.30	-	0.15	1.20	A 0,75-6	3200221	1000
	0.75 ¹⁾	18	silver	-	8.00	2.30	7.30	-	0.15	1.20	A 0,75-8	3202504	1000
	0.75	18	silver	-	10.00	2.30	9.30	-	0.15	1.20	A 0,75-10	3200234	1000
	1	18	silver	-	6.00	2.50	5.30	-	0.15	1.40	A 1 - 6	3200247	1000
	1 ¹⁾	18	silver	-	8.00	2.50	7.30	-	0.15	1.40	A 1 - 8	3202517	1000
	1	18	silver	-	10.00	2.50	9.30	-	0.15	1.40	A 1 - 10	3200250	1000
	1.5	16	silver	-	7.00	2.80	6.00	-	0.15	1.70	A 1,5 - 7	3200263	1000
	1.5	16	silver	-	10.00	2.80	9.00	-	0.15	1.80	A 1,5 - 10	3200276	1000
	1.5	16	silver	-	12.00	2.80	11.00	-	0.15	1.70	A 1,5 - 12	3202588	1000
	1.5	16	silver	-	15.00	2.80	14.00	-	0.15	1.70	A 1,5 - 15	3202591	1000
	1.5	16	silver	-	18.00	2.80	17.00	-	0.15	1.70	A 1,5 - 18	3202601	1000
	2.5	14	silver	-	7.00	3.40	6.00	-	0.15	2.20	A 2,5 - 7	3200289	1000
	2.5	14	silver	-	12.00	3.40	11.00	-	0.15	2.20	A 2,5 - 12	3200292	1000
	2.5	14	silver	-	18.00	3.40	17.00	-	0.15	2.20	A 2,5 - 18	3202821	1000
	4	12	silver	-	9.00	4.00	8.00	-	0.20	2.80	A 4 - 9	3200302	1000
	4	12	silver	-	12.00	4.00	11.00	-	0.20	2.80	A 4 - 12	3200315	1000
	4	12	silver	-	18.00	4.00	17.00	-	0.20	2.80	A 4 - 18	3202834	1000
	6	10	silver	-	10.00	4.70	9.00	-	0.20	3.50	A 6 - 10	3202520	500
	6	10	silver	-	12.00	4.70	11.00	-	0.20	3.50	A 6 - 12	3200328	500
	10	8	silver	-	12.00	5.80	10.80	-	0.20	4.50	A 10 - 12	3200331	500
	10	8	silver	-	18.00	5.80	16.80	-	0.20	4.50	A 10 - 18	3200344	500
	16	6	silver	-	12.00	7.50	10.50	-	0.20	5.80	A 16 - 12	3200425	100
	25 ¹⁾	4	silver	-	12.00	9.50	10.00	-	0.20	7.30	A 25 - 12	3200357	100
	25	4	silver	-	15.00	9.50	13.00	-	0.20	7.30	A 25 - 15	3200360	100
	25	4	silver	-	18.00	9.50	16.00	-	0.20	7.30	A 25 - 18	3200373	100
	25 ¹⁾	4	silver	-	20.00	9.50	18.00	-	0.20	7.30	A 25 - 20	3200386	100
	35	2	silver	-	18.00	11.00	16.00	-	0.20	8.30	A 35 - 18	3200399	100
	35 ¹⁾	2	silver	-	20.00	11.00	18.00	-	0.20	8.30	A 35 - 20	3200409	100

Ferrules with insulating collar, according to DIN 46228-4

- The ferrules with plastic sleeve are made from soft tin-plated electrolytic copper
- The insulation reliability of close connections is increased and the splicing of wires is prevented
- The AI 0,25.. can also be used to process conductors with a cross section of 0.14 mm²



Notes:

¹⁾ These ferrules are not included in DIN 46228-4:1990-09.

Conductor cross sections
from 0.14 to 120 mm²



Technical data

Technical data

General data

Material / coating
Plastic sleeve material
Long/short-term temperature

E-CU / tin-plated (galvanic)
polypropylene
105°C / 120°C

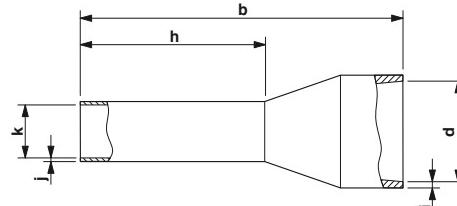
Ordering data

Description	Cross section [mm ²]	Color	AWG	Dimensions [mm]							Type	Order No.	Pcs. / Pkt.	
Ferrules, with plastic sleeve, color range as per DIN 46228-4: 1990-09, CSA-certified														
0.25 ¹⁾	22	yellow	-	10.50	2.00	6.00	0.25	0.15	0.80	-	AI 0,25- 6 YE	3203024	100	
0.25 ¹⁾	22	yellow	-	12.50	2.00	8.00	0.25	0.15	0.80	-	AI 0,25- 8 YE	3203037	100	
0.5	20	white	-	12.00	2.50	6.00	0.25	0.15	1.10	-	AI 0,5- 6 WH	3200687	100	
0.5	20	white	-	14.00	2.50	8.00	0.25	0.15	1.10	-	AI 0,5- 8 WH	3200014	100	
0.5	20	white	-	14.00	2.50	8.00	0.25	0.15	1.10	-	AI 0,5- 8 WH-1000	3200881	1000	
0.5	20	white	-	16.00	2.50	10.00	0.25	0.15	1.10	-	AI 0,5-10 WH	3201275	100	
0.51 ¹⁾	20	white	-	18.00	2.50	12.00	0.25	0.15	1.10	-	AI 0,5-12 WH	3200506	100	
0.75	18	gray	-	12.00	2.80	6.00	0.25	0.15	1.30	-	AI 0,75- 6 GY	3200690	100	
0.75	18	gray	-	14.00	2.80	8.00	0.25	0.15	1.30	-	AI 0,75- 8 GY	3200519	100	
0.75	18	gray	-	14.00	2.80	8.00	0.25	0.15	1.30	-	AI 0,75- 8 GY-1000	3200894	1000	
0.75	18	gray	-	16.00	2.80	10.00	0.25	0.15	1.30	-	AI 0,75-10 GY	3201288	100	
0.75	18	gray	-	18.00	2.80	12.00	0.25	0.15	1.30	-	AI 0,75-12 GY	3200849	100	
1	18	red	-	12.00	3.00	6.00	0.30	0.15	1.50	-	AI 1- 6 RD	3200742	100	
1	18	red	-	14.00	3.00	8.00	0.30	0.15	1.50	-	AI 1- 8 RD	3200030	100	
1	18	red	-	14.00	3.00	8.00	0.30	0.15	1.50	-	AI 1- 8 RD-1000	3200904	1000	
1	18	red	-	16.00	3.00	10.00	0.30	0.15	1.50	-	AI 1- 10 RD	3200182	100	
1	18	red	-	18.00	3.00	12.00	0.30	0.15	1.50	-	AI 1- 12 RD	3200674	100	
1.5 ¹⁾	16	black	-	12.00	3.40	6.00	0.30	0.15	1.80	-	AI 1,5- 6 BK	3200755	100	
1.5	16	black	-	14.00	3.40	8.00	0.30	0.15	1.80	-	AI 1,5- 8 BK	3200043	100	
1.5	16	black	-	14.00	3.40	8.00	0.30	0.15	1.80	-	AI 1,5- 8 BK-1000	3200917	1000	
1.5	16	black	-	18.00	3.40	10.00	0.30	0.15	1.80	-	AI 1,5-10 BK	3200195	100	
1.5	16	black	-	18.50	3.40	12.00	0.30	0.15	1.80	-	AI 1,5-12 BK	3201482	100	
1.5	16	black	-	24.00	3.40	18.00	0.30	0.15	1.80	-	AI 1,5-18 BK	3200056	100	
2.5	14	blue	-	14.00	4.20	8.00	0.30	0.15	2.30	-	AI 2,5- 8 BU	3200522	100	
2.5	14	blue	-	14.00	4.20	8.00	0.30	0.15	2.30	-	AI 2,5- 8 BU-1000	3200920	1000	
2.5 ¹⁾	14	blue	-	17.00	4.20	10.00	0.30	0.15	2.30	-	AI 2,5-10 BU	3202533	100	
2.5	14	blue	-	18.00	4.20	12.00	0.30	0.15	2.30	-	AI 2,5-12 BU	3200962	100	
2.5	14	blue	-	24.00	4.20	18.00	0.30	0.15	2.30	-	AI 2,5-18 BU	3200580	100	
4	12	gray	-	17.00	4.80	10.00	0.30	0.20	2.80	-	AI 4- 10 GY	3200535	100	
4	12	gray	-	19.00	4.80	12.00	0.30	0.20	2.80	-	AI 4- 12 GY	3200959	100	
4	12	gray	-	26.00	4.80	18.00	0.30	0.20	2.80	-	AI 4- 18 GY	3200593	100	
6	10	yellow	-	20.00	6.20	12.00	0.30	0.20	3.50	-	AI 6- 12 YE	3200548	100	
6	10	yellow	-	26.00	6.20	18.00	0.30	0.20	3.50	-	AI 6- 18 YE	3200603	100	
10	8	red	-	22.00	7.50	12.00	0.30	0.20	4.60	-	AI 10- 12 RD	3200551	100	
10	8	red	-	28.00	7.50	18.00	0.30	0.20	4.60	-	AI 10- 18 RD	3200616	100	
16	6	blue	-	24.00	8.80	12.00	0.40	0.20	5.80	-	AI 16- 12 BU	3200564	100	
16	6	blue	-	28.00	8.80	18.00	0.40	0.20	5.80	-	AI 16- 18 BU	3200629	100	
25	4	yellow	-	30.00	11.00	16.00	0.50	0.20	7.30	-	AI 25- 16 YE	3200577	50	
25	4	yellow	-	32.00	11.00	18.00	0.50	0.20	7.30	-	AI 25- 18 YE	3201505	50	
25	4	yellow	-	35.00	11.00	22.00	0.50	0.20	7.30	-	AI 25- 22 YE	3200700	50	
35	2	red	-	30.00	12.50	16.00	0.50	0.20	8.30	-	AI 35- 16 RD	3200441	50	
35	2	red	-	32.00	12.50	18.00	0.50	0.20	8.30	-	AI 35- 18 RD	3201495	50	
35	2	red	-	39.00	12.50	25.00	0.50	0.20	8.30	-	AI 35- 25 RD	3200713	50	
50	1/0	blue	-	36.00	15.00	20.00	0.60	0.35	10.30	-	AI 50- 20 BU	3200454	50	
50	1/0	blue	-	40.00	15.00	25.00	0.60	0.35	10.30	-	AI 50- 25 BU	3200726	25	
70 ¹⁾	2	yellow	-	37.00	16.00	20.00	0.60	0.35	12.70	-	AI 70- 20 YE	3201848	25	
95 ¹⁾	4	red	-	44.00	18.00	25.00	0.60	0.35	14.70	-	AI 95- 25 RD	3201853	25	
120 ¹⁾	5	blue	-	48.00	21.00	27.00	0.70	0.45	16.70	-	AI 120- 27 BU	3201822	25	

Hand tools

Ferrules with insulating collar with color code in acc. with NF C 63-023

- In terms of dimensions, these ferrules conform to DIN 46228-4: 1990-09
- The color code of the plastic insulating collar is based on the French standard NF C 63-023: 1994-02
- The metal sleeves are made from soft tin-plated electrolytic copper



Notes:

1) These ferrules are not included in DIN 46228-4:1990-09.

Conductor cross sections from 0.5 to 50 mm²



General data

Material / coating

Plastic sleeve material

Long/short-term temperature

Technical data

Technical data

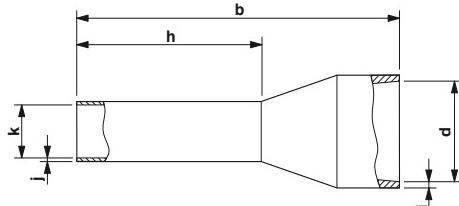
E-CU / tin-plated (galvanic)
polypropylene
105°C / 120°C

Ordering data

Description	Cross section [mm ²]	Cross section AWG	Color	a	b	d	h	i	j	k	Type	Order No.	Pcs. / Pkt.
Ferrules, with plastic sleeve, color code as per NF C 63-023: 1994-02, CSA-certified													
0.5	20	white		-	12.00	2.50	6.00	0.25	0.15	1.10	AI 0.5 - 6 WH	3200687	100
0.5	20	white		-	14.00	2.50	8.00	0.25	0.15	1.10	AI 0.5 - 8 WH	3200014	100
0.5	20	white		-	14.00	2.50	8.00	0.25	0.15	1.10	AI 0.5 - 8 WH -1000	3200881	1000
0.5	20	white		-	16.00	2.50	10.00	0.25	0.15	1.10	AI 0.5 - 10 WH	3201275	100
0.5 ¹⁾	20	white		-	18.00	2.50	12.00	0.25	0.15	1.10	AI 0.5 - 12 WH	3200506	100
0.75	18	blue		-	14.00	2.80	8.00	0.25	0.15	1.30	AI 0.75 - 8 BU	3200027	100
1	18	red		-	12.00	3.00	6.00	0.30	0.15	1.50	AI 1 - 6 RD	3200742	100
1	18	red		-	14.00	3.00	8.00	0.30	0.15	1.50	AI 1 - 8 RD	3200030	100
1	18	red		-	14.00	3.00	8.00	0.30	0.15	1.50	AI 1 - 8 RD -1000	3200904	1000
1	18	red		-	16.00	3.00	10.00	0.30	0.15	1.50	AI 1 - 10 RD	3200182	100
1	18	red		-	18.00	3.00	12.00	0.30	0.15	1.50	AI 1 - 12 RD	3200674	100
1.5 ¹⁾	16	black		-	12.00	3.40	6.00	0.30	0.15	1.80	AI 1.5 - 6 BK	3200755	100
1.5	16	black		-	14.00	3.40	8.00	0.30	0.15	1.80	AI 1.5 - 8 BK	3200043	100
1.5	16	black		-	14.00	3.40	8.00	0.30	0.15	1.80	AI 1.5 - 8 BK -1000	3200917	1000
1.5	16	black		-	18.00	3.40	10.00	0.30	0.15	1.80	AI 1.5 - 10 BK	3200195	100
1.5	16	black		-	18.50	3.40	12.00	0.30	0.15	1.80	AI 1.5 - 12 BK	3201482	100
1.5	16	black		-	24.00	3.40	18.00	0.30	0.15	1.80	AI 1.5 - 18 BK	3200056	100
2.5	14	gray		-	14.00	4.20	8.00	0.30	0.15	2.30	AI 2.5 - 8 GY	3200069	100
2.5	14	gray		-	18.00	4.20	12.00	0.30	0.15	2.30	AI 2.5 - 12 GY	3200205	100
2.5	14	gray		-	24.00	4.20	18.00	0.30	0.15	2.30	AI 2.5 - 18 GY	3200072	100
4	12	orange		-	17.00	4.80	10.00	0.30	0.20	2.80	AI 4 - 10 OG	3200085	100
4	12	orange		-	19.00	4.80	12.00	0.30	0.20	2.80	AI 4 - 12 OG	3200438	100
4	12	orange		-	26.00	4.80	18.00	0.30	0.20	2.80	AI 4 - 18 OG	3200098	100
6	10	green		-	20.00	6.20	12.00	0.30	0.20	3.50	AI 6 - 12 GN	3200108	100
6	10	green		-	26.00	6.20	18.00	0.30	0.20	3.50	AI 6 - 18 GN	3200111	100
10	8	brown		-	22.00	7.50	12.00	0.30	0.20	4.60	AI 10 - 12 BN	3200124	100
10	8	brown		-	28.00	7.50	18.00	0.30	0.20	4.60	AI 10 - 18 BN	3200137	100
16	6	ivory		-	24.00	8.80	12.00	0.40	0.20	5.80	AI 16 - 12 IV	3201181	100
25	4	black		-	30.00	11.00	16.00	0.50	0.20	7.30	AI 25 - 16 BK	3200412	50
25	4	black		-	35.00	11.00	22.00	0.50	0.20	7.30	AI 25 - 22 BK	3200739	50
35	2	red		-	30.00	12.50	16.00	0.50	0.20	8.30	AI 35 - 16 RD	3200441	50
35	2	red		-	39.00	12.50	25.00	0.50	0.20	8.30	AI 35 - 25 RD	3200713	50
50	1/0	blue		-	36.00	15.00	20.00	0.60	0.35	10.30	AI 50 - 20 BU	3200454	50
50	1/0	blue		-	40.00	15.00	25.00	0.60	0.35	10.30	AI 50 - 25 BU	3200726	25

Ferrules with insulating collar in special colors

- The ferrules with plastic sleeve are made from soft tin-plated electrolytic copper
- In terms of dimensions, they conform to DIN 46228-4: 1990-09
- The AI 0,25.. can also be used to process conductors with a cross section of 0.14 mm²



Notes:

¹⁾ These ferrules are not included in DIN 46228-4:1990-09.

Conductor cross sections
from 0.14 to 120 mm²



Technical data

Technical data

General data

Material / coating

Plastic sleeve material

Long/short-term temperature

E-CU / tin-plated (galvanic)
polypropylene
105°C / 120°C

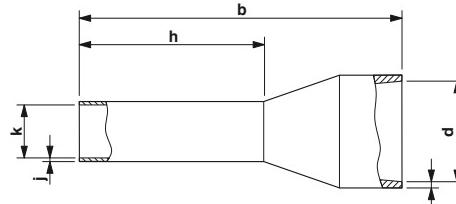
Ordering data

Description	Cross section [mm ²]	Color	Dimensions [mm]	Type	Order No.	Pcs. / Pkt.
Ferrules, with plastic sleeve, special colors, CSA-certified						
0.25 ¹⁾	22	blue	a 10.50 b 2.00 d 6.00 i 0.25 j 0.15 k 0.80	AI 0,25- 6 BU	3203040	100
0.25 ¹⁾	22	blue	a 16.50 b 2.00 d 12.00 i 0.25 j 0.15 k 0.80	AI 0,25-12 BU	3200632	100
0.34 ¹⁾	22	turquoise	a 10.50 b 2.00 d 6.00 i 0.25 j 0.15 k 0.80	AI 0,34- 6 TQ	3203053	100
0.34 ¹⁾	22	turquoise	a 12.50 b 2.00 d 8.00 i 0.25 j 0.15 k 0.80	AI 0,34- 8 TQ	3203066	100
0.34 ¹⁾	22	turquoise	a 16.50 b 2.00 d 12.00 i 0.25 j 0.15 k 0.80	AI 0,34-12 TQ	3200645	100
0.5	20	orange	a 12.00 b 2.50 d 6.00 i 0.25 j 0.15 k 1.10	AI 0,5- 6 OG	3201301	100
0.5	20	orange	a 14.00 b 2.50 d 8.00 i 0.25 j 0.15 k 1.10	AI 0,5- 8 OG	3201123	100
0.75	18	white	a 12.00 b 2.80 d 6.00 i 0.25 j 0.15 k 1.30	AI 0,75- 6 WH	3201314	100
0.75	18	white	a 14.00 b 2.80 d 8.00 i 0.25 j 0.15 k 1.30	AI 0,75- 8 WH	3201110	100
1	18	yellow	a 12.00 b 3.00 d 6.00 i 0.30 j 0.15 k 1.50	AI 1- 6 YE	3201327	100
1	18	yellow	a 14.00 b 3.00 d 8.00 i 0.30 j 0.15 k 1.50	AI 1- 8 YE	3201097	100
1.5	16	red	a 14.00 b 3.40 d 8.00 i 0.30 j 0.15 k 1.80	AI 1,5- 8 RD	3201136	100
2.5	14	blue	a 14.00 b 4.20 d 8.00 i 0.30 j 0.15 k 2.30	AI 2,5- 8 BU	3200522	100
2.5	14	blue	a 14.00 b 4.20 d 8.00 i 0.30 j 0.15 k 2.30	AI 2,5- 8 BU -1000	3200920	1000
2.5	14	blue	a 18.00 b 4.20 d 12.00 i 0.30 j 0.15 k 2.30	AI 2,5- 12 BU	3200962	100
2.5	14	blue	a 24.00 b 4.20 d 18.00 i 0.30 j 0.15 k 2.30	AI 2,5- 18 BU	3200580	100
4	12	gray	a 17.00 b 4.80 d 10.00 i 0.30 j 0.20 k 2.80	AI 4- 10 GY	3200535	100
4	12	gray	a 19.00 b 4.80 d 12.00 i 0.30 j 0.20 k 2.80	AI 4- 12 GY	3200959	100
4	12	gray	a 26.00 b 4.80 d 18.00 i 0.30 j 0.20 k 2.80	AI 4- 18 GY	3200593	100
6	10	black	a 20.00 b 6.20 d 12.00 i 0.30 j 0.20 k 3.50	AI 6- 12 BK	3201107	100
10	8	ivory	a 22.00 b 7.50 d 12.00 i 0.30 j 0.20 k 4.60	AI 10- 12 IV	3201068	100
16	6	green	a 24.00 b 8.80 d 12.00 i 0.40 j 0.20 k 5.80	AI 16- 12 GN	3201152	100
16	6	green	a 28.00 b 8.80 d 18.00 i 0.40 j 0.20 k 5.80	AI 16- 18 GN	3201330	100
25	4	brown	a 30.00 b 11.00 d 16.00 i 0.50 j 0.20 k 7.30	AI 25- 16 BN	3201084	50
35	2	beige	a 30.00 b 12.50 d 16.00 i 0.50 j 0.20 k 8.30	AI 35- 16 BE	3201071	50
50	1/0	olive	a 36.00 b 15.00 d 20.00 i 0.60 j 0.35 k 10.30	AI 50- 20 OL	3201178	50
95 ¹⁾	4	red	a 44.00 b 18.00 d 25.00 i 0.60 j 0.35 k 14.70	AI 95- 25 RD	3201853	25
120 ¹⁾	5	blue	a 48.00 b 21.00 d 27.00 i 0.70 j 0.45 k 16.70	AI 120- 27 BU	3201822	25

Hand tools

Ferrules for special applications

- These ferrules enable practical crimping of conductors with increased insulation
- Due to the increased diameter of the insulating collar, this type of ferrule is specifically used with AWG cables

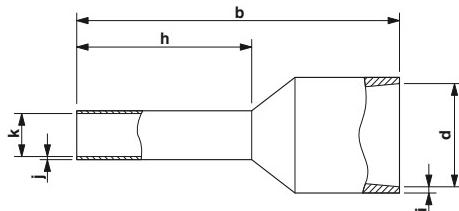


Conductor cross sections from 0.5 to 1.5 mm²

General data			Technical data							Technical data		
Description	Cross section [mm ²]	Color	Dimensions [mm]							Type	Order No.	Pcs. / Pkt.
Ferrules, with plastic sleeves, CSA-certified												
0.5	20	white	-	13.50	3.00	8.00	0.25	0.15	1.10	AI 0,5-8 WH-GB	1208966	500
0.5	20	white	-	15.50	3.00	10.00	0.25	0.15	1.10	AI 0,5-10 WH-GB	3203150	100
0.75	18	gray	-	14.00	3.40	8.00	0.25	0.15	1.30	AI 0,75-8 GY-GB	1208979	500
0.75	18	gray	-	16.00	3.40	10.00	0.25	0.15	1.30	AI 0,75-10 GY-GB	3203163	100
1	18	red	-	14.00	3.40	8.00	0.30	0.15	1.50	AI 1 -8 RD-GB	1208982	500
1	18	red	-	16.00	3.40	10.00	0.30	0.15	1.50	AI 1 -10 RD-GB-1000	1208869	1000
1.5	16	black	-	14.00	3.70	8.00	0.30	0.15	1.80	AI 1,5-8 BK-GB-1000	3202892	1000
1.5	16	black	-	16.00	3.70	10.00	0.30	0.15	1.80	AI 1,5-10 BK-GB-1000	1208872	1000

Ferrules for special applications

- These ferrules can be used for short-circuit-proof cables
- Previous methods of achieving correct conductor insulation are much more time consuming



Conductor cross sections from 1.5 to 16 mm²

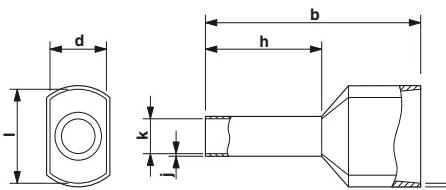
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			Technical data							Technical data		
General data			Dimensions [mm]							Ordering data		
Description	Cross section [mm ²]	AWG	a	b	d	h	i	j	k	Type	Order No.	Pcs. / Pkt.
Ferrules, with plastic sleeve, color range as per DIN 46228-4: 1990-09, CSA-certified												
1.5	16	black	-	17.50	7.00	8.00	0.30	0.15	1.80	AI-XL 1,5- 8 BK	3201916	100
1.5	16	black	-	19.50	7.00	10.00	0.30	0.15	1.80	AI-XL 1,5-10 BK	3201974	100
2.5	14	blue	-	17.50	7.90	8.00	0.30	0.15	2.30	AI-XL 2,5- 8 BU	3201929	100
2.5	14	blue	-	21.50	7.90	12.00	0.30	0.15	2.30	AI-XL 2,5-12 BU	3201987	100
4	12	gray	-	19.50	7.90	10.00	0.30	0.20	2.90	AI-XL 4 -10 GY	3201932	100
6	10	yellow	-	23.00	8.70	12.00	0.30	0.20	3.60	AI-XL 6 -12 YE	3201945	100
10	8	red	-	24.00	10.20	12.00	0.30	0.20	4.60	AI-XL 10 -12 RD	3201958	100
16	6	blue	-	25.50	12.50	12.00	0.40	0.20	6.00	AI-XL 16 -12 BU	3201961	100

Hand tools

Ferrules for special applications

- The TWIN ferrules provide a practical way of crimping two conductors in one ferrule
- These special ferrules allow chain bridges to be set up with ease
- Different versions of the individual TWIN ferrules can be selected for specific applications



Conductor cross sections
from 2 x 0.5 to 2 x 16 mm²

General data

Material / coating

Plastic sleeve material

Long/short-term temperature



Technical data

Technical data

E-CU / tin-plated (galvanic)
polypropylene
105°C / 120°C

Ordering data

Description	Cross section [mm ²]	Color	Dimensions [mm]							Type	Order No.	Pcs. / Pkt.	
Ferrules, with plastic sleeve, color range as per DIN 46228-4: 1990-09, CSA-certified													
2 x 0.5	2 x 20	white	15.00	2.50	8.00	0.25	0.15	1.50	4.70	AI-TWIN 2X 0,5 - 8 WH	3200933	100	
2 x 0.75	2 x 18	gray	15.00	2.80	8.00	0.25	0.15	1.80	5.00	AI-TWIN 2X 0,75 - 8 GY	3200807	100	
2 x 0.75	2 x 18	gray	17.00	2.80	10.00	0.25	0.15	1.80	5.00	AI-TWIN 2X 0,75-10 GY	3200975	100	
2 x 1	2 x 18	red	15.00	3.40	8.00	0.30	0.15	2.05	5.40	AI-TWIN 2X 1 - 8 RD	3200810	100	
2 x 1	2 x 18	red	17.00	3.40	10.00	0.30	0.15	2.05	5.40	AI-TWIN 2X 1 -10 RD	3200988	100	
2 x 1	2 x 18	red	17.00	3.40	12.00	0.30	0.15	2.05	5.40	AI-TWIN 2X1-12 RD	3240679	100	
2 x 1.5	2 x 16	black	16.00	3.60	8.00	0.30	0.15	2.30	6.60	AI-TWIN 2X 1,5 - 8 BK	3200823	100	
2 x 1.5	2 x 16	black	18.00	3.60	10.00	0.30	0.15	2.30	6.60	AI-TWIN 2X 1,5 -10 BK	3201534	100	
2 x 1.5	2 x 16	black	20.00	3.60	12.00	0.30	0.15	2.30	6.60	AI-TWIN 2X 1,5 -12 BK	3200991	100	
2 x 2.5	2 x 14	blue	18.50	4.20	10.00	0.30	0.20	2.90	7.80	AI-TWIN 2X 2,5 -10 BU	3200836	100	
2 x 2.5	2 x 14	blue	21.50	4.20	13.00	0.30	0.20	2.90	7.80	AI-TWIN 2X 2,5 -13 BU	3200878	100	
2 x 4	2 x 12	gray	23.00	4.90	12.00	0.30	0.20	3.80	8.80	AI-TWIN 2X 4 -12 GY	3201000	100	
2 x 6	2 x 10	yellow	25.00	5.90	14.00	0.40	0.20	4.90	10.00	AI-TWIN 2X 6 -14 YE	3201013	100	
2 x 10	2 x 8	red	26.00	7.20	14.00	0.40	0.20	6.50	13.00	AI-TWIN 2X10 -14 RD	3201026	100	
2 x 16	2 x 6	blue	31.00	8.80	16.00	0.50	0.20	8.50	16.60	AI-TWIN 2X16 -16 BU	3202847	50	
Ferrules, with plastic sleeve, color range according to NF C 63-023, CSA-certified													
2 x 0.75	18	blue	15.00	2.80	8.00	0.25	0.15	1.80	5.00	AI-TWIN 2X0,75-8 BU	3240668	100	
2 x 2.5	14	gray	18.50	4.20	10.00	0.30	0.20	2.90	7.80	AI-TWIN 2X2,5-10 GY	3240669	100	

Ferrules with plastic sleeve, taped, supplied on large coils

- Ferrules in tape format for automatic processing
- The ferrules are supplied on large coils, each containing a quantity of up to 3000



Conductor cross section of 0.5 - 2.5 mm²

General data			Technical data							Technical data		
Description	Cross section [mm ²]	Color	a	b	d	h	i	j	k	Type	Order No.	Pcs. / Pkt.
Taped ferrules , with plastic sleeve, large coils for automatic processing, color range acc. to DIN 46228-4: 1990-09, CSA certified												
0.5	20	white	-	14.00	2.50	8.00	0.25	0.15	1.10	AI 0,5-8 WH-B 3000	3240663	3000
0.75	18	gray	-	14.00	2.80	8.00	0.25	0.15	1.30	AI 0,75-8 GY-B 3000	3240664	3000
1	18	red	-	14.00	3.00	8.00	0.30	0.15	1.50	AI 1-8 RD-B 3000	3240665	3000
1.5	16	black	-	14.00	3.40	8.00	0.30	0.15	1.80	AI 1,5-8 BK-B 2500	3240666	2500
2.5	14	blue	-	14.00	4.20	8.00	0.30	0.15	2.30	AI 2,5-8 BU-B 1500	3240667	1500

Hand tools

Assortment boxes containing ferrules



- The practical assortment boxes are designed to keep your workshop tidy
- Color coding and the transparent cover facilitate fast access to the required ferrules.
- Using the integrated euro-clip, they can be hung up on perforated board walls, for example, to save space



Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Assortment box , equipped with ferrules in accordance with DIN 46228-4, CSA-certified 500 pcs. each of AI 0,5-8 WH, AI 2,5-8 BU, 100 pcs. each of AI 0,75-8 GY, AI 1-8 RD, AI 1,5-8 BK	red	AI-SORTI BOX RD	3202960	1
Assortment box , equipped with ferrules in accordance with DIN 46228-4, CSA-certified 50 pcs. of AI 4-10 GY, 20 pcs. each of AI 6-12 YE, AI 10-12 RD, 10 pcs. of AI 16-12 BU	anthracite	AI-SORTI BOX ANT	3202973	1
Assortment box , equipped with TWIN ferrules in accordance with DIN 46228-4, CSA-certified 500 pcs. each of AI-TWIN 2x0,5-8 WH, AI-TWIN 2x0,75-8 GY, AI-TWIN 2x1-8 RD, AI-TWIN 2x1,5-8 BK 25 pcs. of AI-TWIN 2x2,5-10 BU	blue	AI-TWIN SORTI BOX BU	3202986	1
Assortment box , equipped with TWIN ferrules in accordance with DIN 46228-4, CSA-certified 20 pcs. of AI-TWIN 2x4-12 GY, 10 pcs. each of AI-TWIN 2x6-14 YE, AI-TWIN 2x10-14 RD	gray	AI-TWIN SORTI BOX GY	3202999	1
Assortment box , empty, with five compartments	light gray	AI-SORTI BOX-E LGY	3203008	10

Ferrule set with tools

- Stripping and crimping set with a selection of CSA/CSA-certified ferrules



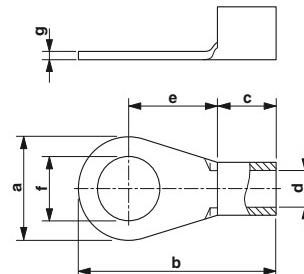
Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Assortment box , made of metal, equipped with ferrules in accordance with DIN 46228-4: 1990-09, CSA-certified 500 pieces each of Al 0,25-6 YE, Al 0,34-6 TQ, Al 0,5-8 WH, Al 0,75-8 GY, Al 1-8 RD, Al 1,5-8 BK, 300 pieces of Al 2,5-8 BU, 200 pieces of Al 4-10 GY, 100 pieces of Al 6-12 YE as well as stripping tool for cables and conductors of up to 6 mm ² Crimp pliers for ferrules in accordance with DIN 46228, Part 1+4, 0.5 – 6 mm ² , front insertion, trapezoidal crimp	CRIMPSET 6	1202072	1
Assortment box , made of metal, equipped with ferrules in accordance with DIN 46228-4: 1990-09, CSA-certified 300 pieces of Al 10-12 RD, 200 pieces of Al 16-12 BU, 100 pieces of Al 25-16 YE as well as stripping tool, for stripping cables of 4.5 - 40 mm, Crimp pliers for ferrules in accordance with DIN 46228, Part 1+4, 10 - 25 mm ² , lateral insertion, WM crimp	CRIMPSET 25	1202580	1
Assortment box , metal, no components mounted	CRIMPSET 6/25 LEER	1204041	1

Hand tools

Ring cable lugs, uninsulated

- The ring cable lugs without plastic sleeve are made from high-quality tin-plated electrolytic copper for maximum protection against corrosion
- The hard-soldered press zone enables maximum conductor extraction values to be achieved
- The CRIMPFOX-RC... tools from our CRIMPFOX range of crimping pliers are available for optimum crimping



Conductor cross sections from 0.5 to 240 mm²

General data	Technical data							Technical data				
	Material / coating		Temperature range					Copper / Tin-plated ... 110				
Description	Cross section [mm ²]	Cross section AWG	Color	Dimensions [mm]					Type	Order No.	Pcs. / Pkt.	
Ring cable lug, uninsulated, as per DIN 46234												
0.5 - 1	20 - 18	silver	6.00	14.00	5.00	1.60	6.00	2.80	0.80	C-RC 1/M2,5 DIN	3240069	100
0.5 - 1	20 - 18	silver	6.00	14.00	5.00	1.60	6.00	3.20	0.80	C-RC 1/M3 DIN	3240070	100
0.5 - 1	20 - 18	silver	6.00	14.00	5.00	1.60	6.00	3.70	0.80	C-RC 1/M3,5 DIN	3240071	100
0.5 - 1	20 - 18	silver	8.00	16.00	5.00	1.60	7.00	4.30	0.80	C-RC 1/M4 DIN	3240072	100
0.5 - 1	20 - 18	silver	10.00	18.00	5.00	1.60	8.00	5.30	0.80	C-RC 1/M5 DIN	3240073	100
0.5 - 1	20 - 18	silver	10.00	18.00	5.00	1.60	8.00	6.50	0.80	C-RC 1/M6 DIN	3240074	100
0.5 - 1	20 - 18	silver	11.60	22.00	5.00	1.60	12.00	8.40	0.80	C-RC 1/M8 DIN	3240075	100
1 - 2.5	18 - 14	silver	6.00	14.00	5.00	2.30	6.00	3.20	0.80	C-RC 2,5/M3 DIN	3240076	100
1 - 2.5	18 - 14	silver	6.00	14.00	5.00	2.30	6.00	3.70	0.80	C-RC 2,5/M3,5 DIN	3240077	100
1 - 2.5	18 - 14	silver	8.00	16.00	5.00	2.30	7.00	4.30	0.80	C-RC 2,5/M4 DIN	3240078	100
1 - 2.5	18 - 14	silver	10.00	19.00	5.00	2.30	9.00	5.30	0.80	C-RC 2,5/M5 DIN	3240079	100
1 - 2.5	18 - 14	silver	11.00	21.50	5.00	2.30	11.00	6.50	0.80	C-RC 2,5/M6 DIN	3240080	100
1 - 2.5	18 - 14	silver	14.00	24.00	5.00	2.30	12.00	8.40	0.80	C-RC 2,5/M8 DIN	3240081	100
1 - 2.5	18 - 14	silver	14.00	25.40	5.00	2.30	12.00	10.50	0.80	C-RC 2,5/M10 DIN	3240082	100
2.5 - 6	14 - 10	silver	8.00	17.50	6.00	3.60	8.00	4.30	1.00	C-RC 6/M4 DIN	3240083	50
2.5 - 6	14 - 10	silver	10.00	20.00	6.00	3.60	9.00	5.30	1.00	C-RC 6/M5 DIN	3240084	50
2.5 - 6	14 - 10	silver	11.00	22.00	6.00	3.60	10.00	6.50	1.00	C-RC 6/M6 DIN	3240085	50
2.5 - 6	14 - 10	silver	14.00	26.00	6.00	3.60	13.00	8.40	1.00	C-RC 6/M8 DIN	3240086	50
2.5 - 6	14 - 10	silver	18.00	30.00	6.00	3.60	15.00	10.50	1.00	C-RC 6/M10 DIN	3240087	50
2.5 - 6	14 - 10	silver	18.00	35.50	6.00	3.60	15.00	13.00	1.00	C-RC 6/M12 DIN	3240088	50
- 10	- 8	silver	10.00	21.00	8.00	4.50	8.00	5.30	1.10	C-RC 10/M5 DIN	3240089	100
- 10	- 8	silver	11.00	23.00	8.00	4.50	9.00	6.50	1.10	C-RC 10/M6 DIN	3240090	100
- 10	- 8	silver	14.00	27.00	8.00	4.50	12.00	8.40	1.10	C-RC 10/M8 DIN	3240091	100
- 10	- 8	silver	18.00	30.00	8.00	4.50	13.00	10.50	1.10	C-RC 10/M10 DIN	3240092	100
- 10	- 8	silver	22.00	34.00	8.00	4.50	15.00	13.00	1.10	C-RC 10/M12 DIN	3240093	100
- 16	- 6	silver	11.00	26.00	10.00	5.80	10.00	5.30	1.10	C-RC 16/M5 DIN	3240094	100
- 16	- 6	silver	11.00	26.00	10.00	5.80	10.00	6.50	1.20	C-RC 16/M6 DIN	3240095	100
- 16	- 6	silver	14.00	29.00	10.00	5.80	12.00	8.40	1.20	C-RC 16/M8 DIN	3240096	100
- 16	- 6	silver	18.00	33.00	10.00	5.80	14.00	10.50	1.20	C-RC 16/M10 DIN	3240097	100
- 16	- 6	silver	22.00	37.00	10.00	5.80	16.00	13.00	1.20	C-RC 16/M12 DIN	3240098	100
- 25	- 4	silver	12.00	31.00	11.00	7.50	14.00	5.30	1.50	C-RC 25/M5 DIN	3240099	100
- 25	- 4	silver	12.00	31.00	11.00	7.50	14.00	6.50	1.50	C-RC 25/M6 DIN	3240100	100
- 25	- 4	silver	16.00	33.00	11.00	7.50	14.00	8.40	1.50	C-RC 25/M8 DIN	3240101	100
- 25	- 4	silver	18.00	35.00	11.00	7.50	15.00	10.50	1.50	C-RC 25/M10 DIN	3240102	100
- 25	- 4	silver	31.00	42.00	11.00	7.50	20.00	13.00	1.50	C-RC 25/M12 DIN	3240103	100
- 25	- 4	silver	35.00	49.00	11.00	7.50	25.00	17.00	1.50	C-RC 25/M16 DIN	3240104	100
- 35	- 2	silver	15.00	34.00	12.00	9.00	14.00	6.50	1.60	C-RC 35/M6 DIN	3240105	100
- 35	- 2	silver	16.00	34.00	12.00	9.00	14.00	8.40	1.60	C-RC 35/M8 DIN	3240106	100
- 35	- 2	silver	18.00	36.00	12.00	9.00	15.00	10.50	1.60	C-RC 35/M10 DIN	3240107	100
- 35	- 2	silver	22.00	42.00	12.00	9.00	19.00	13.00	1.60	C-RC 35/M12 DIN	3240108	100
- 35	- 2	silver	28.00	50.00	12.00	9.00	24.00	17.00	1.60	C-RC 35/M16 DIN	3240109	100
- 50	- 1/0	silver	18.00	43.00	16.00	11.00	18.00	6.50	1.80	C-RC 50/M6 DIN	3240110	100
- 50	- 1/0	silver	18.00	43.00	16.00	11.00	18.00	8.40	1.80	C-RC 50/M8 DIN	3240111	100
- 50	- 1/0	silver	18.00	43.00	16.00	11.00	18.00	10.50	1.80	C-RC 50/M10 DIN	3240112	100
- 50	- 1/0	silver	22.00	47.00	16.00	11.00	20.00	13.00	1.80	C-RC 50/M12 DIN	3240113	100
- 50	- 1/0	silver	28.00	54.00	16.00	11.00	24.00	17.00	1.80	C-RC 50/M16 DIN	3240114	100
- 70	- 2/0	silver	22.00	49.00	18.00	13.00	20.00	6.50	2.00	C-RC 70/M6 DIN	3240115	100
- 70	- 2/0	silver	22.00	49.00	18.00	13.00	20.00	8.40	2.00	C-RC 70/M8 DIN	3240116	100
- 70	- 2/0	silver	22.00	49.00	18.00	13.00	20.00	10.50	2.00	C-RC 70/M10 DIN	3240117	100
- 95	- 3/0	silver	24.00	54.00	20.00	15.00	22.00	8.40	2.50	C-RC 95/M8 DIN	3240120	50
- 95	- 3/0	silver	24.00	54.00	20.00	15.00	22.00	10.50	2.50	C-RC 95/M10 DIN	3240121	50
- 95	- 3/0	silver	24.00	54.00	20.00	15.00	22.00	13.00	2.50	C-RC 95/M12 DIN	3240122	50

Ring cable lugs, uninsulated

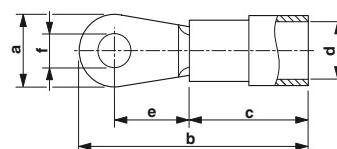
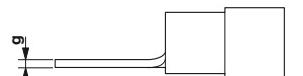
Conductor cross sections from 0.5 to 240 mm²

General data			Technical data							Technical data			
Description	Cross section [mm ²]	AWG	Color	Dimensions [mm]							Type	Order No.	Pcs. / Pkt.
Ring cable lug, uninsulated, as per DIN 46234													
120	250	silver	24.00	56.00	22.00	16.50	22.00	8.40	3.00	C-RC 120/M8 DIN	3240124	25	
120	250	silver	24.00	56.00	22.00	16.50	22.00	10.50	3.00	C-RC 120/M10 DIN	3240125	25	
120	250	silver	24.00	56.00	22.00	16.50	22.00	13.00	3.00	C-RC 120/M12 DIN	3240126	25	
150	300	silver	30.00	65.00	24.00	19.00	26.00	10.50	3.20	C-RC 150/M10 DIN	3240128	25	
150	300	silver	30.00	65.00	24.00	19.00	26.00	13.00	3.20	C-RC 150/M12 DIN	3240129	25	
150	300	silver	30.00	65.00	24.00	19.00	26.00	17.00	3.20	C-RC 150/M16 DIN	3240130	25	
185	350	silver	36.00	74.00	28.00	21.00	22.00	10.50	3.50	C-RC 185/M10 DIN	3240131	20	
185	350	silver	36.00	74.00	28.00	21.00	22.00	13.00	3.50	C-RC 185/M12 DIN	3240132	20	
185	350	silver	36.00	74.00	28.00	21.00	22.00	17.00	3.50	C-RC 185/M16 DIN	3240133	20	
240	500	silver	38.00	75.00	32.00	23.50	24.00	10.50	4.00	C-RC 240/M10 DIN	3240134	10	
240	500	silver	38.00	75.00	32.00	23.50	24.00	13.00	4.00	C-RC 240/M12 DIN	3240135	10	
240	500	silver	38.00	75.00	32.00	23.50	24.00	17.00	4.00	C-RC 240/M16 DIN	3240136	10	

Hand tools

Ring cable lugs, insulated

- The insulated ring cable lugs with plastic sleeve are hard-soldered and feature the "EASY ENTRY" system
- The sleeves are conically tapered to facilitate easy and correct insertion of the conductor

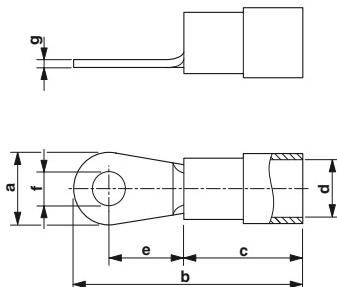


Conductor cross sections from 0.5 to 10 mm²

General data			Technical data							Technical data		
Description	Cross section	Color	Dimensions [mm]							Type	Order No.	Pcs. / Pkt.
	[mm ²]	AWG	a	b	c	d	e	f	g			
Ring cable lug, insulated as per UL												
0.5 - 1.5	20 - 16	red	5.50	17.50	10.50	4.10	4.30	3.20	0.75	C-RCI 1,5/M3	3240016	100
0.5 - 1.5	20 - 16	red	5.50	17.50	10.50	4.10	4.30	3.70	0.75	C-RCI 1,5/M3,5	3240017	100
0.5 - 1.5	20 - 16	red	8.00	21.70	10.50	4.10	7.30	4.30	0.75	C-RCI 1,5/M4	3240018	100
0.5 - 1.5	20 - 16	red	8.00	21.70	10.50	4.10	7.30	5.30	0.75	C-RCI 1,5/M5	3240019	100
0.5 - 1.5	20 - 16	red	11.60	27.60	10.50	4.10	11.20	6.50	0.75	C-RCI 1,5/M6	3240020	100
1.5 - 2.5	16 - 14	blue	6.60	20.60	11.00	4.50	7.80	3.20	0.80	C-RCI 2,5/M3	3240021	100
1.5 - 2.5	16 - 14	blue	6.60	20.60	11.00	4.50	6.30	3.70	0.80	C-RCI 2,5/M3,5	3240022	100
1.5 - 2.5	16 - 14	blue	8.50	23.00	11.00	4.50	7.80	4.30	0.80	C-RCI 2,5/M4	3240023	100
1.5 - 2.5	16 - 14	blue	9.50	23.00	11.00	4.50	7.30	5.30	0.80	C-RCI 2,5/M5	3240024	100
1.5 - 2.5	16 - 14	blue	12.00	28.10	11.00	4.50	11.00	6.50	0.80	C-RCI 2,5/M6	3240025	50
1.5 - 2.5	16 - 14	blue	12.00	28.10	11.00	4.50	11.00	8.50	0.80	C-RCI 2,5/M8	3240026	50
4 - 6	16 - 14	yellow	9.50	26.70	14.00	6.60	8.00	4.30	1.00	C-RCI 6/M4	3240027	50
4 - 6	12 - 10	yellow	9.50	26.70	14.00	6.60	8.00	5.30	1.00	C-RCI 6/M5	3240028	50
4 - 6	12 - 10	yellow	12.00	32.70	14.00	6.60	12.70	6.50	1.00	C-RCI 6/M6	3240029	25
4 - 6	12 - 10	yellow	15.00	34.90	14.00	6.60	13.40	8.50	1.00	C-RCI 6/M8	3240030	25
4 - 6	12 - 10	yellow	15.00	34.90	14.00	6.60	13.40	10.50	1.00	C-RCI 6/M10	3240031	25
- 10	- 8	red	10.00	31.30	16.00	7.50	10.90	5.30	1.10	C-RCI 10/M5	3240219	50
- 10	- 8	red	11.00	31.30	16.00	7.50	19.30	6.50	1.10	C-RCI 10/M6	3240220	50
- 10	- 8	red	14.00	37.30	16.00	7.50	13.80	8.40	1.10	C-RCI 10/M8	3240221	50
- 10	- 8	red	18.00	37.30	16.00	7.50	13.80	10.50	1.10	C-RCI 10/M10	3240222	50

Ring cable lugs, insulated with additional crimp zone for conductor insulation

- The insulated ring cable lugs with plastic sleeve are hard-soldered and feature the "EASY ENTRY" system
- The sleeves are conically tapered to facilitate easy and correct insertion of the conductor



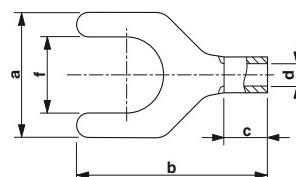
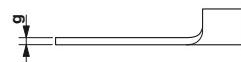
Conductor cross sections from 0.5 to 10 mm²

			Technical data							Technical data		
General data			Dimensions [mm]							Ordering data		
Description	Cross section	Color	a	b	c	d	e	f	g	Type	Order No.	Pcs. / Pkt.
	[mm ²]	AWG										
Ring cable lug, insulated with additional crimp zone for conductor insulation												
0.5 - 1.5	20 - 16	red	5.50	17.50	10.50	4.10	4.30	3.20	0.75	C-RCEI 1,5/M3	3241201	100
0.5 - 1.5	20 - 16	red	5.50	17.50	10.50	4.10	4.30	3.70	0.75	C-RCEI 1,5/M3,5	3241202	100
0.5 - 1.5	20 - 16	red	8.00	21.70	10.50	4.10	7.30	4.30	0.75	C-RCEI 1,5/M4	3241203	100
0.5 - 1.5	20 - 16	red	8.00	21.70	10.50	4.10	7.30	5.30	0.75	C-RCEI 1,5/M5	3241204	100
0.5 - 1.5	20 - 16	red	11.60	27.60	10.50	4.10	11.20	6.50	0.75	C-RCEI 1,5/M6	3241205	100
1.5 - 2.5	16 - 14	blue	6.60	20.60	11.00	4.50	6.30	3.70	0.80	C-RCEI 2,5/M3,5	3241206	100
1.5 - 2.5	16 - 14	blue	8.50	23.00	11.00	4.50	7.80	4.30	0.80	C-RCEI 2,5/M4	3241207	100
1.5 - 2.5	16 - 14	blue	9.50	23.00	11.00	4.50	7.30	5.30	0.80	C-RCEI 2,5/M5	3241208	100
1.5 - 2.5	16 - 14	blue	12.00	28.10	11.00	4.50	11.00	6.50	0.80	C-RCEI 2,5/M6	3241209	100
1.5 - 2.5	16 - 14	blue	12.00	28.10	11.00	4.50	11.00	8.50	0.80	C-RCEI 2,5/M8	3241210	100
4 - 6	12 - 10	yellow	9.50	26.70	14.00	6.60	8.00	5.30	1.00	C-RCEI 6/M5	3241211	100
4 - 6	12 - 10	yellow	12.00	32.70	14.00	6.60	12.70	6.50	1.00	C-RCEI 6/M6	3241212	100
4 - 6	12 - 10	yellow	15.00	34.90	14.00	6.60	13.40	8.50	1.00	C-RCEI 6/M8	3241213	100
4 - 6	12 - 10	yellow	15.00	34.90	14.00	6.60	13.40	10.50	1.00	C-RCEI 6/M10	3241214	100

Hand tools

Fork-type cable lugs, insulated and uninsulated

- The fork-type cable lugs without plastic sleeve feature a hard-soldered neck. In conjunction with the CRIMPFOX-RC ... and CRIMPFOX-RCI ... pliers they can be used to achieve maximum conductor pull-out forces.
- The insulated versions are halogen-free and feature "EASY ENTRY" technology



Conductor cross sections from 0.5 to 6 mm²

General data			Technical data							Technical data		
Description	Cross section	Color	Dimensions [mm]							Type	Order No.	Pcs. / Pkt.
	[mm ²]	AWG	a	b	c	d	e	f	g			
Fork-type cable lug, uninsulated DIN 46234												
0.5 - 1.5	20 - 16	silver	5.70	16.00	4.50	1.90	-	3.20	0.75	C-FC 1,5/M3	3240137	100
0.5 - 1.5	20 - 16	silver	6.20	16.00	4.50	1.90	-	3.70	0.75	C-FC 1,5/M3,5	3240138	100
0.5 - 1.5	20 - 16	silver	7.20	16.00	4.50	1.90	-	4.30	0.75	C-FC 1,5/M4	3240139	100
0.5 - 1.5	20 - 16	silver	8.00	16.00	4.50	1.90	-	5.30	0.75	C-FC 1,5/M5	3240140	100
0.5 - 1.5	20 - 16	silver	10.70	17.00	4.50	1.90	-	6.40	0.80	C-FC 1,5/M6	3240141	100
1.5 - 2.5	16 - 14	silver	5.70	16.00	4.80	2.50	-	3.20	0.80	C-FC 2,5/M3	3240142	100
1.5 - 2.5	16 - 14	silver	6.20	16.00	4.80	2.50	-	3.70	0.80	C-FC 2,5/M3,5	3240143	100
1.5 - 2.5	16 - 14	silver	7.20	16.00	4.80	2.50	-	4.30	0.80	C-FC 2,5/M4	3240144	100
1.5 - 2.5	16 - 14	silver	8.00	16.00	4.80	2.50	-	5.30	0.80	C-FC 2,5/M5	3240145	100
1.5 - 2.5	16 - 14	silver	10.70	17.00	4.80	2.50	-	6.40	0.80	C-FC 2,5/M6	3240146	100
1.5 - 2.5	16 - 14	silver	13.50	22.10	4.80	2.50	-	8.40	0.80	C-FC 2,5/M8	3240147	100
4 - 6	12 - 10	silver	8.20	19.50	6.50	3.60	-	4.30	1.00	C-FC 6/M4	3240148	50
4 - 6	12 - 10	silver	9.00	19.50	6.50	3.60	-	5.30	1.00	C-FC 6/M5	3240149	50
4 - 6	12 - 10	silver	12.00	23.10	6.50	3.60	-	6.40	1.00	C-FC 6/M6	3240150	50
4 - 6	12 - 10	silver	13.50	25.00	6.50	3.60	-	8.40	1.00	C-FC 6/M8	3240151	50

Fork-type cable lugs, insulated and uninsulated

- The fork-type cable lugs without plastic sleeve feature a hard-soldered neck. In conjunction with the CRIMPFOX-RC ... and CRIMPFOX-RCI ... pliers they can be used to achieve maximum conductor pull-out forces.
- The insulated versions are halogen-free and feature "EASY ENTRY" technology



Conductor cross sections from 0.5 to 6 mm²

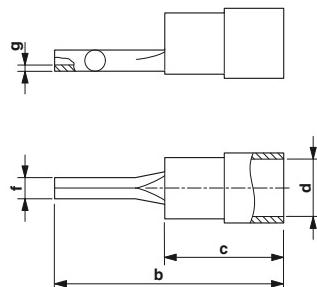
			Technical data							Technical data			
General data			Dimensions [mm]							Ordering data			
Description	Cross section [mm ²]	AWG	Color	a	b	c	d	e	f	g	Type	Order No.	Pcs. / Pkt.
Fork-type cable lug, insulated as per UL													
0.5 - 1.5	20 - 16		red	5.70	22.00	10.50	4.10	-	3.20	0.75	C-FCI 1,5/M3	3240032	100
0.5 - 1.5	20 - 16		red	5.70	22.00	10.50	4.10	-	3.70	0.75	C-FCI 1,5/M3,5	3240033	100
0.5 - 1.5	20 - 16		red	7.20	22.00	10.50	4.10	-	4.30	0.75	C-FCI 1,5/M4	3240034	100
0.5 - 1.5	20 - 16		red	8.00	22.00	10.50	4.10	-	5.30	0.75	C-FCI 1,5/M5	3240035	100
0.5 - 1.5	20 - 16		red	10.70	22.00	10.50	4.10	-	6.50	0.75	C-FCI 1,5/M6	3240036	100
1.5 - 2.5	16 - 14		blue	5.70	22.50	11.00	4.50	-	3.20	0.80	C-FCI 2,5/M3	3240037	100
1.5 - 2.5	16 - 14		blue	5.70	22.50	11.00	4.50	-	3.70	0.80	C-FCI 2,5/M3,5	3240038	100
1.5 - 2.5	16 - 14		blue	7.20	22.50	11.00	4.50	-	4.30	0.80	C-FCI 2,5/M4	3240039	100
1.5 - 2.5	16 - 14		blue	8.00	22.50	11.00	4.50	-	5.30	0.80	C-FCI 2,5/M5	3240040	50
1.5 - 2.5	16 - 14		blue	10.70	22.50	11.00	4.50	-	6.50	0.80	C-FCI 2,5/M6	3240041	50
4 - 6	12 - 10		yellow	8.20	26.70	14.00	6.60	-	4.30	1.00	C-FCI 6/M4	3240042	50
4 - 6	12 - 10		yellow	9.00	26.70	14.00	6.60	-	5.30	1.00	C-FCI 6/M5	3240043	50
4 - 6	12 - 10		yellow	12.00	30.30	14.00	6.60	-	6.50	1.00	C-FCI 6/M6	3240044	25
4 - 6	12 - 10		yellow	13.50	32.80	14.00	6.60	-	8.50	1.00	C-FCI 6/M8	3240045	25

Hand tools

Pin cable lugs, insulated

The key features of the insulated pin cable lugs with plastic collars are as follows:

- "EASY ENTRY" for easy and reliable conductor entry
- Hard-soldered crimping zone for maximum extraction forces
- Electrolytic tin plating
- Halogen-free



Conductor cross sections from 0.5 to 6 mm²

General data

Material / coating

Temperature range

[°C]

Technical data

Copper / Tin-plated
-20 ... 105

Description	Cross section [mm ²]	Cross section AWG	Color
Pin cable lug, insulated as per UL	0.5 - 1.5	20 - 16	red
	1.5 - 2.5	16 - 14	blue
	4 - 6	12 - 10	yellow

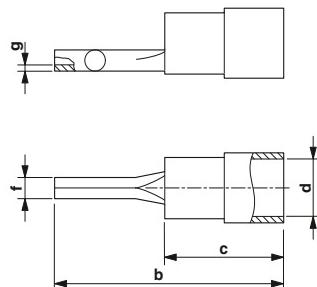
Dimensions [mm]							
a	b	c	d	e	f	g	
-	22.50	10.50	4.10	-	2.00	0.75	C-PCI 1,5/2
-	23.00	11.00	4.50	-	2.00	0.80	C-PCI 2,5/2
-	27.50	14.00	6.60	-	2.70	0.80	C-PCI 6/2,7

Type	Order No.	Pcs. / Pkt.
	3240064	100
	3240066	100
	3240068	50

Pin cable lugs, insulated with additional crimp zone for conductor insulation

The key features of the insulated pin cable lugs with plastic collars are as follows:

- "EASY ENTRY" for easy and reliable conductor entry
- Hard-soldered crimping zone for maximum extraction forces
- Electrolytic tin plating
- Halogen-free



Conductor cross sections from 0.5 to 6 mm²

General data

Material / coating

Temperature range

[°C]

Technical data

Copper / Tin-plated
-20 ... 105

Description	Cross section [mm ²]	Cross section AWG	Color
Pin cable lug, insulated with additional crimp zone for conductor insulation	0.5 - 1.5	20 - 16	red
	1.5 - 2.5	16 - 14	blue
	4 - 6	12 - 10	yellow

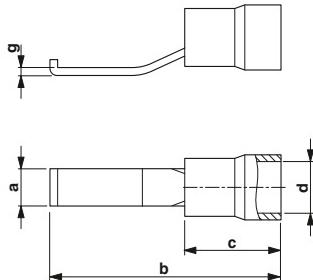
Dimensions [mm]							
a	b	c	d	e	f	g	
-	22.50	10.50	4.10	-	2.00	0.75	C-PCEI 1,5/2
-	23.00	11.00	4.50	-	2.00	0.80	C-PCEI 2,5/2
-	27.50	14.00	6.60	-	2.70	0.80	C-PCEI 6/2

Type	Order No.	Pcs. / Pkt.
	3241215	100
	3241216	100
	3241217	100

Flat pin cable lugs with hooks, insulated

The key features of the flat pin cable lugs with plastic collars are as follows:

- "EASY ENTRY" for easy and reliable conductor entry
- Electrolytic tin plating
- Halogen-free



Conductor cross sections from 0.5 to 6 mm²

General data

Material / coating
Temperature range

[°C]

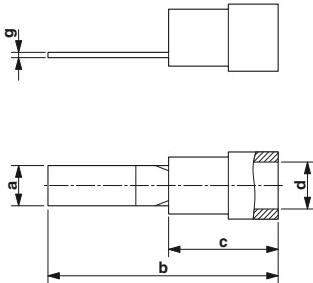
Technical data

Copper / Tin-plated
-20 ... 105

Description	Cross section		Color	Dimensions [mm]							Type	Order No.	Pcs. / Pkt.	
	[mm ²]	AWG		a	b	c	d	e	f	g				
Flat pin cable lug, insulated														
0 - 1.5	20 - 16	red	2.80	28.00	10.50	4.00	-	-	-	0.80	C-BCI 1,5/2,8	3240015	100	
0.5 - 1.5	20 - 16	red	4.60	28.00	10.50	4.00	-	-	-	0.80	C-BCI 1,5/4,6	3240568	100	
1.5 - 2.5	16 - 14	blue	2.80	28.50	11.00	4.50	-	-	-	0.80	C-BCI 2,5/2,8	3240046	100	
1.5 - 2.5	16 - 14	blue	4.60	28.50	11.00	4.50	-	-	-	0.80	C-BCI 2,5/4,6	3240569	100	
4 - 6	12 - 10	yellow	2.80	32.00	14.00	6.50	-	-	-	0.80	C-BCI 6/2,8	3240047	50	
4 - 6	12 - 10	yellow	4.60	32.00	14.00	6.50	-	-	-	1.00	C-BCI 6/4,6	3240570	50	

Flat pin cable lugs, straight, insulated

- Easy and reliable conductor entry thanks to "EASY ENTRY"
- Hard-soldered crimping zone for maximum conductor pull-out force in connection with CRIMPFOX RCI... pliers
- Electrogalvanized
- Halogen-free



Conductor cross sections from 0.5 to 6 mm²

General data

Material / coating
Temperature range

[°C]

Technical data

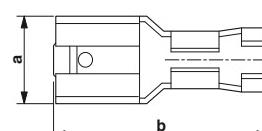
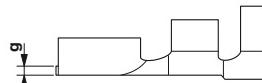
CU / electrogalvanized
-20 ... 105

Description	Cross section		Color	Dimensions [mm]							Type	Order No.	Pcs. / Pkt.	
	[mm ²]	AWG		a	b	c	d	e	f	g				
Flat pin cable lug, insulated, pin dimensions:														
19.5 x 2.8 mm	0.5 - 1.5	20 - 16	red	2.80	19.50	10.50	4.10	-	-	0.75	C-BCSI 1,5/9X2,8	3240531	100	
20 x 2.8 mm	1.5 - 2.5	16 - 14	blue	2.80	20.00	11.00	4.50	-	-	0.80	C-BCSI 2,5/9X2,8	3240532	100	
32 x 4.5 mm	4 - 6	12 - 10	yellow	2.80	24.00	14.00	6.60	-	-	1.00	C-BCSI 6/10X2,8	3240546	100	
24 x 2.8 mm	4 - 6	12 - 10	yellow	4.50	32.00	14.00	6.60	-	-	1.00	C-BCSI 6/18X4,5	3240533	100	

Hand tools

Slip-on sleeves and flat plugs, uninsulated

- The uninsulated slip-on sleeves and flat plugs are made from electrolytically tin-plated brass
- They round off the product range in terms of connectors



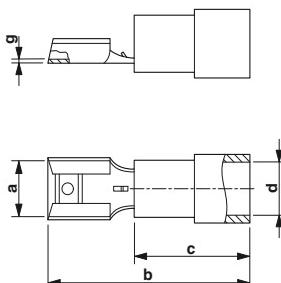
Conductor cross sections from 0.5 to 6 mm²

General data			Technical data							Technical data		
Description	Cross section [mm ²]	Color	Dimensions [mm]							Type	Order No.	Pcs. / Pkt.
			a	b	c	d	e	f	g			
Slip-on sleeve, uninsulated as per DIN 46247												
0.5 - 1	20 - 18	silver	2.80	14.50	-	-	-	-	0.30	C-SCF 1/2,8X0,5	3240152	100
0.5 - 1	20 - 18	silver	2.80	12.50	-	-	-	-	0.30	C-SCF 1/2,8X0,8	3240153	100
0.5 - 1.5	20 - 16	silver	4.80	15.60	-	-	-	-	0.40	C-SCF 1,5/4,8X0,5	3240154	100
0.5 - 1.5	20 - 16	silver	4.80	15.60	-	-	-	-	0.40	C-SCF 1,5/4,8X0,8	3240155	100
0.5 - 1.5	20 - 16	silver	6.30	19.20	-	-	-	-	0.40	C-SCF 1,5/6,3X0,8	3240156	100
1.5 - 2.5	16 - 14	silver	4.80	15.60	-	-	-	-	0.40	C-SCF 2,5/4,8X0,5	3240157	100
1.5 - 2.5	16 - 14	silver	4.80	15.60	-	-	-	-	0.40	C-SCF 2,5/4,8X0,8	3240158	100
1.5 - 2.5	16 - 14	silver	6.30	19.20	-	-	-	-	0.40	C-SCF 2,5/6,3X0,8	3240159	100
4 - 6	12 - 10	silver	6.30	19.20	-	-	-	-	0.40	C-SCF 6/6,3X0,8	3240160	100
Flat plug, uninsulated as per DIN 46248												
0.5 - 1.5	20 - 16	silver	6.30	20.00	-	-	-	-	0.80	C-SCM 1,5/6,3X0,8	3240161	100
1.5 - 2.5	16 - 14	silver	6.30	20.00	-	-	-	-	0.80	C-SCM 2,5/6,3X0,8	3240162	100
Accessories												
Insulating sleeve, as shock protection for slip-on sleeves, to be threaded onto the cable in advance										PT/FS 2,8	1406700	500
For 2.8 mm slip-on sleeves		transparent								PT/FS 4,8	1670497	25
For 4.8 mm slip-on sleeves		transparent								PT/FS 6,3	0604707	500
For 6.3 mm slip-on sleeves		transparent										

Slip-on sleeves and flat plugs, insulated

The key features of the insulated flat plugs and slip-on sleeves with plastic collars are as follows:

- "EASY ENTRY" for easy and reliable conductor entry
- Hard-soldered crimping zone for maximum extraction forces
- Electrolytic tin plating
- Halogen-free



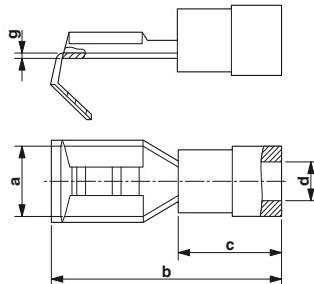
Conductor cross sections from 0.5 to 6 mm²

General data			Technical data							Technical data			
Description	Cross section [mm ²]	AWG	Color	Dimensions [mm]							Type	Order No.	Pcs. / Pkt.
Slip-on sleeve, insulated as per UL				a	b	c	d	e	f	g			
0.5 - 1.5	20 - 16	red	2.80	18.50	10.50	4.10	-	-	-	0.25	C-SCFI 1,5/2,8X0,5	3240048	100
0.5 - 1.5	20 - 16	red	2.80	18.50	10.50	4.10	-	-	-	0.25	C-SCFI 1,5/2,8X0,8	3240049	100
0.5 - 1.5	20 - 16	red	4.80	19.50	10.50	4.10	-	-	-	0.40	C-SCFI 1,5/4,8X0,5	3240050	100
0.5 - 1.5	20 - 16	red	4.80	19.50	10.50	4.10	-	-	-	0.40	C-SCFI 1,5/4,8X0,8	3240051	100
0.5 - 1.5	20 - 16	red	6.30	21.50	10.50	4.10	-	-	-	0.40	C-SCFI 1,5/6,3X0,8	3240052	100
1.5 - 2.5	16 - 14	blue	4.80	20.00	11.00	5.00	-	-	-	0.40	C-SCFI 2,5/4,8X0,5	3240053	50
1.5 - 2.5	16 - 14	blue	4.80	20.00	11.00	5.00	-	-	-	0.40	C-SCFI 2,5/4,8X0,8	3240054	50
1.5 - 2.5	16 - 14	blue	6.30	22.00	11.00	5.00	-	-	-	0.40	C-SCFI 2,5/6,3X0,8	3240055	50
4 - 6	12 - 10	yellow	6.30	25.00	14.00	6.60	-	-	-	0.40	C-SCFI 6/6,3X0,8	3240056	50
Flat plug, insulated as per UL				6.30	22.00	10.50	4.10	-	-	0.80			
0.5 - 1.5	20 - 16	red	6.30	22.50	11.00	4.50	-	-	-	0.80	C-SCMI 1,5/6,3X0,8	3240058	100
1.5 - 2.5	16 - 14	blue	6.30	24.50	14.00	6.60	-	-	-	0.80	C-SCMI 2,5/6,3X0,8	3240059	50
4 - 6	12 - 10	yellow									C-SCMI 6/6,3X0,8	3240060	50

Hand tools

Slip-on distributor, insulated

- Easy and reliable conductor entry thanks to “EASY ENTRY”
- Hard-soldered crimping zone for maximum conductor pull-out force in connection with CRIMPFOX RCI... pliers
- Electrogalvanized
- Halogen-free



Conductor cross sections from 0.5 to 2.5 mm²

General data

Material / coating

Temperature range

[°C]

Technical data

Brass / electrogalvanized

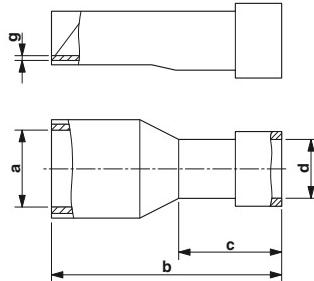
-20 ... 105

Ordering data

Description	Cross section [mm ²]	Cross section AWG	Color	Dimensions [mm]							Type	Order No.	Pcs. / Pkt.	
Slip-on distributor, insulated, for 6.3 x 0.8 mm plugs and sleeves														
0.5 - 1.5	20 - 16	red	6.30	22.50	10.50	41.00	-	-	-	0.40	C-SCFMI 1,5/6,3X0,8	3240529	50	
1.5 - 2.5	16 - 14	blue	6.30	23.00	11.00	11.00	-	-	-	0.40	C-SCFMI 2,5/6,3X0,8	3240530	50	

Slip-on sleeves, fully insulated

- Easy and reliable conductor entry thanks to “EASY ENTRY”
- Hard-soldered crimping zone for maximum conductor pull-out force in connection with CRIMPFOX RCI... pliers
- Electrogalvanized
- Halogen-free



Conductor cross sections from 0.5 to 6 mm²

General data

Material / coating

Temperature range

[°C]

Technical data

Brass / electrogalvanized

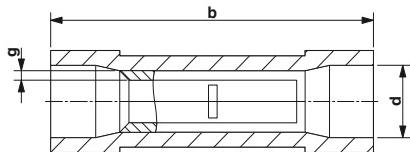
-20 ... 105

Ordering data

Description	Cross section [mm ²]	Cross section AWG	Color	Dimensions [mm]							Type	Order No.	Pcs. / Pkt.	
Slip-on sleeve, fully insulated, for plugs:														
2.8 x 0.5 mm	0.5 - 1.5	20 - 16	red	2.80	19.00	10.50	4.30	-	-	0.25	C-SCFFI 1,5/2,8X0,5	3240534	50	
2.8 x 0.8 mm	0.5 - 1.5	20 - 16	red	2.80	19.00	10.50	4.30	-	-	0.25	C-SCFFI 1,5/2,8X0,8	3240535	50	
4.8 x 0.5 mm	0.5 - 1.5	20 - 16	red	4.80	19.50	10.50	4.30	-	-	0.40	C-SCFFI 1,5/4,8X0,5	3240536	50	
4.8 x 0.8 mm	0.5 - 1.5	20 - 16	red	4.80	19.50	10.50	4.30	-	-	0.40	C-SCFFI 1,5/4,8X0,8	3240537	50	
6.3 x 0.8 mm	0.5 - 1.5	20 - 16	red	6.30	21.50	10.50	4.30	-	-	0.40	C-SCFFI 1,5/6,3X0,8	3240538	50	
4.8 x 0.5 mm	1.5 - 2.5	16 - 14	blue	4.80	20.00	11.00	5.00	-	-	0.40	C-SCFFI 2,5/4,8X0,5	3240539	50	
4.8 x 0.8 mm	1.5 - 2.5	16 - 14	blue	4.80	20.00	11.00	5.00	-	-	0.40	C-SCFFI 2,5/4,8X0,8	3240540	50	
6.3 x 0.8 mm	1.5 - 2.5	16 - 14	blue	6.30	22.00	11.00	5.00	-	-	0.40	C-SCFFI 2,5/6,3X0,8	3240547	25	
6.3 x 0.8 mm	4 - 6	12 - 10	yellow	6.30	26.00	14.00	6.60	-	-	0.40	C-SCFFI 6/6,3X0,8	3240541	25	

Butt connector, fully insulated

- Conductor through connection protection
- Hard-soldered crimping zone for maximum conductor pull-out force in connection with CRIMPFOX RCI... pliers
- Electrogalvanized
- Halogen-free

Conductor cross sections from 0.5 to 6 mm²

General data			Technical data							Technical data			
Description	Cross section [mm ²]	Color	Dimensions [mm]							Type	Order No.	Pcs. / Pkt.	
Material / coating									CU / electrogalvanized -20 ... 105				
Temperature range	[°C]		a	b	c	d	e	f	g				
Butt connector, insulated	0.5 - 1.5	20 - 16	red	-	25.00	-	4.00	-	-	0.75	C-JCI 1,5	3240061	50
	1.5 - 2.5	16 - 14	blue	-	25.30	-	4.50	-	-	0.80	C-JCI 2,5	3240062	50
	4 - 6	12 - 10	yellow	-	27.50	-	6.00	-	-	1.00	C-JCI 6	3240063	25



Automatic devices - TOOL fox

Phoenix Contact offers a comprehensive range of innovative machine tools for flexible and fast processing of conductors and cables where various steps can be automated.

A combination of functionality, quality, and short modification times guarantees high levels of flexibility while ensuring excellent results every time. Cutting machines, stripping machines, and crimping machines are available.

Product range overview

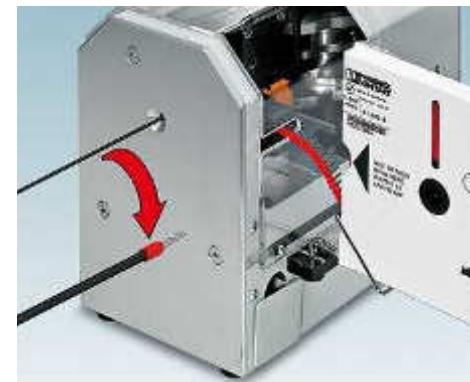
Automatic devices	468
Automatic cutting device for conductors and cables	470
Stripping machine	471
Pneumatic crimping pliers	472
Portable crimping machine for ferrules, cable lugs, and connectors	474
CRIMPHANDY portable hand-held machine	476
Portable stripping and crimping machine for taped products	478
Ferrules with plastic sleeve, taped	479
Stripping and crimping machine for bulk goods	480



Automatic stripping



Automatic crimping



Automatic stripping and crimping
in a single operation



The CUTFOX 10 automatic cutting device cuts conductors and cables with a cross section of up to 10 mm^2 . Solid and stranded conductors can be cut to length with millimeter precision. The length and number of cuts is entered via the user-friendly display. The CUTFOX 10 automatically adapts to the diameter when there is a change in material.



The WF 1000 stripping machine enables the automatic stripping of conductors with a cross section of up to 6 mm^2 or cables with a diameter of up to 6 mm, as well as the option of partial stripping. The stripping dimensions are set individually via rotary buttons and shown visually on the display.



ZAP crimping pliers are pneumatic pliers for ferrules with a cross section range of 0.25 to 10 mm^2 . The crimping process is activated by a foot valve. Two integrated recesses allow easy access to the ferrules.



The CF 500 is characterized by its high pressing force and compact design. Thanks to the adjustable pressing force and interchangeable dies, it is suitable for insulated cable lugs, tube lugs, and crimping wire lugs, as well as slip-on sleeves and ferrules with a cross section of up to 50 mm^2 .



The CF 3000 2,5 stripping and crimping machine processes taped ferrules with insulating collars in accordance with DIN 46228-4. This device allows conductors with a cross section range of 0.25 - 2.5 mm^2 to be stripped and fitted with ferrules in one operation. The automatic device can be adapted to various cross sections in under a minute.



The automatic stripping and crimping machine CF 1000 processes loose (bulk) ferrules with insulating collars in accordance with DIN 46228-4. Using this machine, conductors can be stripped and fitted with ferrules in one operation.

Automatic devices

Automatic cutting device
for conductors and cables

- The automatic cutting device can be used to cut conductors, cables, and similar profiles
- The desired length and number of cuts can be specified in a user-friendly way via the display
- To insert the conductors all you have to do is swing open the front enclosing guard
- The drive and guide rolls automatically adjust to each inserted diameter
- No adjustments are required thanks to the automatic “zero cut”, which is performed when the start button is pressed

Notes:

An application video can be found in the download area for the relevant product on our website at www.phoenixcontact.net/products.



Conductor cross sections from 0.25 to 10 mm²



Technical data

Dimensions	[mm]	Width	Length	Height
General data		195	295	230
Weight	[kg]	11		
Power consumption	[VA]	80		
Cutting efficiency				
Finely stranded	[mm ²]	0.25 - 10		
Solid strand	[mm ²]	0.25 - 2.5		
Max. throughput	[mm]	8		
Cross section setting				
Maximum number of cuts	[Pcs.]	automatic		
Length	[mm]	999		
Feed rate	[m/s]	2 ... 99999		
Unit of measurement		0.5		
Dialog language		mm/inch		
		German / English / French / Italian		

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Automatic cutting device , 230 V/50 Hz version, for conductors and cables with a diameter of up to 8 mm, solid (up to 2.5 mm ²) and stranded (up to 10 mm ²)	CUTFOX 10	1206829	1
Automatic cutting device , 120 V/60 Hz version, for conductors and cables with a diameter of up to 8 mm, solid (up to 2.5 mm ²) and stranded (up to 10 mm ²)	CUTFOX 10 120V	1206832	1

Accessories

Cable unwinders , for CUTFOX 10, for accommodating and gently unwinding cable rings and coils, complete	CUTFOX 10 C-UN	1208393	1
Turntable , for CUTFOX 10 cable unwinders, for accommodating cable rings and cable coils	CUTFOX 10 R-C	1208403	1
Retaining bolts , for CUTFOX 10 rotary table, 4 pcs.	CUTFOX 10 BAR	1208416	1
Replacement drive belt , for CUTFOX 10, 2 pcs.	CF-10 WHEEL SET	1207271	1
Spare knife set , for CUTFOX 10	CF-10 CUTTER KNIFE SET	1207284	1



Stripping machine**Notes:**

An application video can be found in the download area for the relevant product on our website at www.phoenixcontact.net/products.



Conductor cross sections from 0.08 to 6 mm²

- Compact stripping machine for automatically stripping conductors with a cross section of 0.08 to 6 mm²
- Multi-strand cables with a diameter of up to 6 mm can also be stripped
- Partial stripping is supported
- Even special types of insulation, such as PTFE and silicone, can be stripped in addition to standard types
- The clamping force automatically adjusts itself to the required extraction force
- Pressure points on sensitive insulation are avoided
- The stripping dimensions are set individually via rotary buttons and shown visually on the large display

Technical data			
Dimensions	[mm]	Width	Length
		141	363
General data			Height
Weight	[kg]	9.5	221
Power consumption	[VA]	160	
Working cycle	[s]	0.3	
Compression		trapezoidal	
Stripping power			
Finely stranded	[mm ²]	0.08 - 6	
Stripping length	[mm]	3-20	
Partial stripping length	[mm]	2-20	
Max. throughput	[mm]	6	

Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Stripping machine , 230 V design, for conductors and cables, solid and stranded 0.08 - 6 mm ² (max. Ø 6 mm), with integrated graphic display	WF 1000	1212149	1
Stripping machine , 120 V design, for conductors and cables, solid and stranded 0.08 - 6 mm ² (max. Ø 6 mm), with integrated graphic display	WF 1000 120V	1212258	1

Accessories			
Spare stripping knife, for WF 1000	WF 1000/SB	1212279	1

Automatic devices

Pneumatic crimping pliers

- These crimping pliers are pneumatic tools for ferrules with a cross section range of 0.25 to 10 mm²
- The crimping pliers can process all types of Phoenix Contact ferrules, from uninsulated to insulated TWIN ferrules

Conductor cross sections from 0.25 to 2.5 mm²Conductor cross sections from 0.25 to 4 mm²

Applied for:
GOST

Application range

Conductor	[mm ²] / AWG
Pressure range	[bar]
Air consumption per compression	[l]
Compression	trapezoidal

Technical data**Technical data**

0.25 - 2.5 / 24 - 14	0.25 - 4 / 24 - 12
4 - 6	4 - 6
0.2	0.2
trapezoidal	trapezoidal

Ordering data**Ordering data**

Description	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Pneumatic crimp pliers, for ferrules as per DIN 46228	ZAP 25	1203110	1	ZAP 40	1212630	1
Pneumatic crimping pliers, for ferrules according to DIN 46228, three marked die stations, lateral entry						
Pneumatic crimp pliers, for ferrules as per DIN 46228						
Pneumatic crimp pliers, for ferrules as per DIN 46228						
Pneumatic crimp pliers, for ferrules as per DIN 46228						

Conductor cross sections from 4 to 10 mm²Conductor cross sections from 0.25 to 2.5 mm²Conductor cross sections from 4 to 10 mm²Applied for:
GOSTApplied for:
GOSTApplied for:
GOST

Technical data		
4 - 10 / 12 - 8	0.25 - 2.5 / 24 - 14	4 - 10 / 12 - 8
4 - 6	4 - 6	4 - 6
0.2	0.2	0.2
trapezoidal	trapezoidal	trapezoidal

Technical data		
4 - 10 / 12 - 8	0.25 - 2.5 / 24 - 14	4 - 10 / 12 - 8
4 - 6	4 - 6	4 - 6
0.2	0.2	0.2
trapezoidal	trapezoidal	trapezoidal

Technical data		
4 - 10 / 12 - 8	0.25 - 2.5 / 24 - 14	4 - 10 / 12 - 8
4 - 6	4 - 6	4 - 6
0.2	0.2	0.2
trapezoidal	trapezoidal	trapezoidal

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZAP 100	1203259	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZAP 25 T	1203123	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZAP 100 T	1203262	1

Automatic devices

Portable crimping machine for ferrules, cable lugs, and connectors



The CF 500 is characterized by a high press capacity in a compact design.

Easy to replace dies for processing ferrules, cable lugs, and contacts:

- Ferrules of up to 50 mm²
- TWIN ferrules up to 2 x 10 mm²
- Insulated cable lugs up to 6 mm²
- Uninsulated cable lugs up to 6 mm²
- Tube lugs of up to 10 mm²
- Slip-on sleeves and flat plugs of up to 6 mm²
- Turned contacts up to 10 mm²

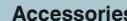
Easy assembly of FBS ... plug-in bridges from the CLIPLINE complete system:

- FBS ...-4, FBS ...-5, FBS ...-6,
FBS ...-8**

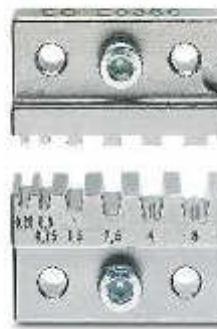
Notes:
See data sheet for further technical data.
For more information about dies, visit: www.phoenixcontact.net/products .
An application video can be found in the download area for the relevant product on our website at www.phoenixcontact.net/products .



Connectors up to 50 mm²

 Technical data			
Dimensions	[mm]	Width 140	Length 220
General data		Height 320	
Weight	[kg]	10	
Power supply	[V]	100 ... 240	
Power consumption	[VA]	160	
Pressure	[kN]	10	
Working cycle	[s]	1	
 Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Crimping machine, 230 V version, with quantity counter and foot switch 230 V version	CF 500-230V	1208348	1
Crimping machine, 120 V version, with quantity counter and foot switch 120 V version	CF 500-120V	1208351	1
 Accessories			
CF 500 protective cover, without recess (for all dies without assignment)	CF 500/COV	1212250	1
For ferrules of up to 6 mm ² (AI 6...)	CF 500/COV AI 6	1212254	1
For TWIN ferrules (AI-TWIN...)	CF 500/COV AI TWIN	1212266	1
For insulated cable lugs (RCI... TC4)	CF 500/COV RCI	1212255	1
For tube lugs 0.5 - 10 mm ²	CF 500/COV RC 10	1212252	1
For tube lugs with a cross section of 0.34 - 2.5 mm ² (SC...)	CF 500/COV RCT 2,5	1212253	1
For slip-on sleeves and flat plugs SC 1,5... and SC 6...	CF 500/COV SC	1212251	1
For FBS ... plug-in bridges	CF 500/COV FBS	1212462	1
CF 500 Locator, for slip-on sleeves (SCF...) Width: 2.8 mm, length: 5 mm	CF 500/LOC SCF 2,8/1,5	1212249	1
For slip-on sleeves (SCF...) Width: 4.8 mm	CF 500/LOC SCF 4,8/2,5	1212248	1
For slip-on sleeves (SCF...) Width: 6.3 mm	CF 500/LOC SCF 6,3/6	1212247	1
For slip-on sleeves (SCM...) 0.5 - 2.5 mm ²	CF 500/LOC SCM 6,3/2,5	1212264	1



Dies for crimping machine**Ordering data**

Description	Type	Order No.	Pcs. / Pkt.
CF 500 die , for ferrules (A... and Al...) 0.25 - 6 mm ²			
For ferrules (A... and Al...) 10, 16, and 25 mm ²	CF 500/DIE AI 6 CF 500/DIE AI 25	1212238 1212239	1 1
For ferrules (A... and Al...) 35 and 50 mm ²	CF 500/DIE AI 50	1212261	1
For TWIN ferrules (AI-TWIN...) 2 x 4, 2 x 6, and 2 x 10 mm ²	CF 500/DIE AI-TWIN 10	1212262	1
CF 500 die , for ferrules (A... and Al...) 0.25 - 6 mm ²			
For insulated cable lugs (RCI... and FCI...) 0.14 - 1.5 mm ²	CF 500/DIE RCI 1,5	1212263	1
For insulated cable lugs (RCI... and FCI...) 0.5 - 6 mm ²	CF 500/DIE RCI 6	1212240	1
For cable lugs (RC... and FC...) 0.5 - 10 mm ²	CF 500/DIE RC 10	1212244	1
For cable lugs (RC... and FC...) 16 mm ²	CF 500/DIE RC 16	1212257	1
CF 500 die , for ferrules (A... and Al...) 0.25 - 6 mm ²			
For slip-on sleeves and flat plugs (SCF... and SCM...) 0.1 - 1.5 mm ²	CF 500/DIE SC 1,5	1212241	1
For slip-on sleeves and flat plugs (SCF... and SCM...) 0.5 - 6 mm ²	CF 500/DIE SC 6	1212242	1
CF 500 die , for ferrules (A... and Al...) 0.25 - 6 mm ²			
For turned contacts with pin diameters 2.5 and 4.0 mm (CK 2,5..., CK 4,0) 0.14 - 4 mm ²	CF 500/DIE TC 4	1212237	1
For turned contacts (CK 4,0) 6 - 10 mm ²	CF 500/DIE TC 10	1212260	1
CF 500 die , for assembling FBS ... plug-in bridges			
For FBS ... plug-in bridges	CF 500/DIE FBS	1212461	1

Automatic devices

CRIMPHANDY, portable hand-held machine, for a 1.0 mm² conductor cross section

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The product innovation for switchgear manufacturing – the CRIMPHANDY. With this portable hand-held machine, you can strip and crimp your conductors in under two seconds – 75% less time than before.

- The matching reel ferrules are suitable for use on all modular terminal blocks, particularly those from the CLIPLINE complete system:
- UT screw connection terminal blocks
- ST spring-cage connection terminal blocks
- PT push-in connection terminal blocks
- COMBI plug-in connection solutions
- Detailed information regarding the advantages of the CRIMPHANDY can be found on page 388

Notes:

An application video can be found in the download area for the relevant product on our website at www.phoenixcontact.net/products.

1.0 mm² conductor cross section

Technical data			
Dimensions	[mm]	Width	Length
General data			Height
Weight	[kg]	42	200
Conductor	[mm ²] / AWG	0.43	67
Working cycle	[s]	1 - 1 / -	
Compression		2	
		Square crimp	

Ordering data		
Description	Type	Order No.
		Pcs. / Pkt.
Portable hand-held machine, battery-powered, for ferrules, 1.0 mm ² , incl. battery and charger, 100 - 240 V, in a robust aluminum case For standard PVC and PE conductors	CF CRIMPHANDY 1,0	1212465 1

Accessories		
Description	Type	Order No.
		Pcs. / Pkt.
Reel ferrules, 1.0 mm ² , 8 mm, with plastic sleeve, according to DIN 46228-4, red, 50 pieces per strip	AI 1,0-8 RD-S	1212523 50
Replacement battery, for CF CRIMPHANDY.... Li-ion 7.4 V, 0.76 Ah	CF CRIMPHANDY/ACCU	1212518 1
Replacement charger, for CF CRIMPHANDY..., 100 - 240 V AC	CF CRIMPHANDY/CHARGER	1212519 1



CRIMPHANDY, portable hand-held machine, for a 1.5 mm² conductor cross section



The product innovation for switchgear manufacturing – the CRIMPHANDY. With this portable hand-held machine, you can strip and crimp your conductors in under two seconds – 75% less time than before.

- The matching reel ferrules are suitable for use on all modular terminal blocks, particularly those from the CLIPLINE complete system:
- UT screw connection terminal blocks
- ST spring-cage connection terminal blocks
- PT push-in connection terminal blocks
- COMBI plug-in connection solutions

Notes:

An application video can be found in the download area for the relevant product on our website at www.phoenixcontact.net/products.



1.5 mm² conductor cross section

Technical data			
Dimensions	[mm]	Width 42	Length 200
General data		Height 67	
Weight	[kg]		
Conductor	[mm ²] / AWG	0.43	
Working cycle		1.5 - 1.5 / -	
Compression	[s]	2	
		Square crimp	
Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Portable hand-held machine, battery-powered, for ferrules, 1.5 mm ² , incl. battery and charger, 100 - 240 V, in a robust aluminum case For standard PVC and PE conductors	CF CRIMPHANDY 1,5	1212466	1
Accessories			
Reel ferrules, 1.5 mm ² , 8 mm, with plastic sleeve, according to DIN 46228-4, red, 50 pieces per strip	AI 1,5-8 BK-S	1212524	50
Replacement battery, for CF CRIMPHANDY..., Li-ion 7.4 V, 0.76 Ah	CF CRIMPHANDY/ACCU	1212518	1
Replacement charger, for CF CRIMPHANDY..., 100 - 240 V AC	CF CRIMPHANDY/CHARGER	1212519	1



Automatic devices

Portable automatic stripping and crimping device for taped products



- The compact stripping and crimping machine can be used to process taped ferrules with insulating collars in accordance with DIN 46228-4
- Up to 1200 conductors can be processed an hour
- The conductor is stripped in a single operation and is crimped with a ferrule to a high standard of quality
- Particularly suitable for pre-assembling conductors
- Thanks to its compact and lightweight design, it can also be used as a portable solution for transport between different work locations
- The automatic device can be adapted to various cross sections in under a minute
- Color coding in accordance with ferrule standard DIN 46228-4 makes the assignment of modification components really clear

The suitable taped ferrules support the use of all modular terminal blocks, especially from the **CLIPLINE complete system**:

- UT screw terminal blocks
- ST spring-cage terminal blocks
- PT push-in connection terminal blocks
- COMBI plug-in connection solutions

Notes:

An application video can be found in the download area for the relevant product on our website at www.phoenixcontact.net/products.



Conductor cross sections from 0.25 to 2.5 mm²



Technical data

Dimensions	[mm]	Width	Length	Height
General data		165	320	300
Weight	[kg]	12		
Application range				
Conductor	[mm ²] / AWG	0.25 - 2.5 / 24 - 14		
Power consumption	[VA]	80		
Working cycle	[s]	1.2		
Compression		trapezoidal		

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Stripping and crimping machine , 230 V design, for insulated taped ferrules 0.25 – 2.5 mm ² , stripping length 8 mm, incl. the conversion kits 0.5 – 2.5 mm ²	CF 3000-2,5	1205477	1
Stripping and crimping machine , 120 V design, for insulated taped ferrules 0.25 – 2.5 mm ² , stripping length 8 mm, incl. the conversion kits 0.5 – 2.5 mm ²	CF 3000-2,5 120V	1205516	1

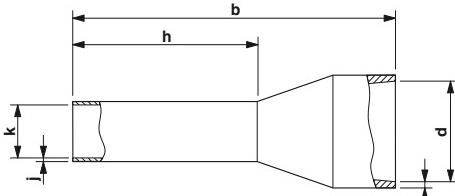
Accessories

Expansion set , complete, for CF 3000, for taped insulated ferrules, 0.25/0.34 mm ² , stripping length 8 mm	CF 3000-TOOLKIT 0,25	1212376	1
Spare locator , 0.25 mm ²	CF 3000 LOC 0,25	1212377	1
0.5 mm ²	CF 3000 LOC 0,5	1205639	1
0.75 mm ²	CF 3000 LOC 0,75	1205642	1
1.0 mm ²	CF 3000 LOC 1,0	1205655	1
1.5 mm ²	CF 3000 LOC 1,5	1205668	1
2.5 mm ²	CF 3000 LOC 2,5	1205671	1
Spare knife , 0.25 mm ² , adjustable	CF 3000 AB 0,25	1212380	1
0.25 mm ² , adjustable	CF 3000 AM 0,5	1205587	1
0.5 mm ²	CF 3000 AM 0,75	1205590	1
0.75 mm ²	CF 3000 AM 1,0	1205600	1
1.0 mm ²	CF 3000 AM 1,5	1205613	1
1.5 mm ²	CF 3000 AM 2,5	1205626	1



Ferrules with plastic sleeve, tapered, for the CF 3000-2,5 crimping machine

- The tapered ferrules have been developed specifically for the CF 3000-2,5 crimping machine
- Available in the main color ranges up to 2.5 mm²
- Can be used to wire all modular terminal blocks, especially those of the CLIPLINE complete system

Conductor cross sections from 0.25 to 8 mm²

General data		
Material / coating		
Plastic sleeve material		
Long/short-term temperature		

Description	Cross section			Dimensions [mm]							Technical data		Technical data	
	[mm ²]	AWG	Color	a	b	d	h	i	j	k	Type	Order No.	Pcs. / Pkt.	
Taped ferrule , with plastic sleeve, color range as per DIN 46228-4: 1990-09, CSA-certified														
0.25	22	yellow	-	14.00	2.20	8.00	0.25	0.15	0.80		AI 0,25-8 YE-B	3240251	1000	
0.5	20	white	-	14.00	2.50	8.00	0.25	0.15	1.10		AI 0,5 - 8 WH-B	3201369	1000	
0.75	18	gray	-	14.00	2.80	8.00	0.25	0.15	1.30		AI 0,75 - 8 GY-B	3201372	1000	
1	18	red	-	14.00	3.00	8.00	0.30	0.15	1.50		AI 1 - 8 RD-B	3201385	1000	
1.5	16	black	-	14.00	3.40	8.00	0.30	0.15	1.80		AI 1,5 - 8 BK-B	3201398	1000	
2.5	14	blue	-	14.00	4.20	8.00	0.30	0.15	2.30		AI 2,5 - 8 BU-B	3201408	500	
Taped ferrules , with plastic sleeve, color code as per NF C 63-023: 1994-02, CSA-certified														
0.75	18	blue	-	14.00	2.80	8.00	0.25	0.15	1.30		AI 0,75 - 8 BU-B	3201547	1000	
2.5	14	gray	-	14.00	4.20	8.00	0.30	0.15	2.30		AI 2,5 - 8 GY-B	3201550	500	
Taped ferrules , with plastic sleeve, special colors, CSA-certified														
0.25	22	blue	-	14.00	2.20	8.00	0.25	0.15	0.80		AI 0,25-8 BU-B	3240250	1000	
0.34	22	turquoise	-	14.00	2.20	8.00	0.25	0.15	0.80		AI 0,34-8 TQ-B	3240249	1000	
0.5	20	orange	-	14.00	2.50	8.00	0.25	0.15	1.10		AI 0,5 - 8 OG-B	3201563	1000	
0.75	18	white	-	14.00	2.80	8.00	0.25	0.15	1.30		AI 0,75 - 8 WH-B	3201576	1000	
1	18	yellow	-	14.00	3.00	8.00	0.30	0.15	1.50		AI 1 - 8 YE-B	3201589	1000	
1.5	16	red	-	14.00	3.40	8.00	0.30	0.15	1.80		AI 1,5 - 8 RD-B	3201592	1000	

Automatic devices

Stripping and crimping machine for bulk goods



- The stripping and crimping machine can be used to process loose ferrules with insulating collars in accordance with DIN 46228-4
- Up to 1200 conductors can be processed an hour
- The conductor is stripped in a single operation and is crimped with a ferrule to a high standard of quality
- The extraction forces conform to the requirements of IEC/EN 60999 and IEC/EN 60947

Other key features of the automatic device are as follows:

- Robust design
- Quick change of cross section without the need for additional adjustments
- Quantity counter
- Suitable for bulk processing



Conductor cross sections from 0.34 to 4 mm²



Technical data				
Dimensions	[mm]	Width	Length	Height
General data		240	490	390
Weight	[kg]	29		
Power supply	[V]	100 ... 240		
Air consumption per compression	[l]	1.2		
Working cycle	[s]	1.5		
Compression		trapezoidal		

Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Stripping and crimping machine , 100 - 230 V version, electro-pneumatic, for loose ferrules with insulating collar, 0.34 – 4 mm ² , incl. conversion kits 0.5 – 1.5 mm ² (stripping length 8 mm)	CF 1000-1,5	1208199	1

Accessories			
Extension kit , complete, for CF 1000, for loose ferrules with insulating collar	CF 1000-TOOLKIT 0,34/ 6	1208212	1
0.25/0.34 mm ² , stripping length: 6 mm	CF 1000-TOOLKIT 0,34/ 8	1208225	1
0.25/0.34 mm ² , stripping length 8 mm	CF 1000-TOOLKIT 2,5/ 8	1208241	1
2.5 mm ² , stripping length 8 mm	CF 1000-TOOLKIT 4,0/10	1208270	1
4 mm ² , stripping length 10 mm	CF 1000 EM	1205215	1
Spare knife, V-form, for CF 1000	CF 1000-COVER	1208306	1

Stripping and crimping machine for bulk goods

- The stripping and crimping machine can be used to process loose ferrules with insulating collars in accordance with DIN 46228-4
- Up to 1200 conductors can be processed an hour
- The conductor is stripped in a single operation and is crimped with a ferrule to a high standard of quality
- The extraction forces conform to the requirements of IEC/EN 60999 and IEC/EN 60947

Other key features of the automatic device are as follows:

- Robust design
- Quick change of cross section without the need for additional adjustments
- Quantity counter
- Suitable for bulk processing



Conductor cross section of 4 / 6 / 10 mm²



Technical data			
Dimensions	Width [mm]	Length 490	Height 390
General data			
Weight	[kg]	29	
Power supply	[V]	100 ... 240	
Air consumption per compression	[l]	1.2	
Working cycle	[s]	1.5	
Compression		trapezoidal	

Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Stripping and crimping machine , 100 - 230 V version, electro-pneumatic, for loose ferrules with insulating collar, 4 mm ² , 6 mm ² , and 10 mm ² , without conversion kit	CF 1000-10	1212456	1

Accessories			
Conversion kit , complete, for CF 1000-10, for loose ferrules with insulating collar 4 mm ² , stripping length: 10 - 12 mm 6 mm ² , 12 mm stripping length 10 mm ² , 12 mm stripping length	CF 1000-10-TOOLKIT 4/10-12 CF 1000-10-TOOLKIT 6/12 CF 1000-10-TOOLKIT 10/12	1212458 1212459 1212460	1 1 1
Spare knife , V-form, for CF 1000	CF 1000 EM	1205215	1
Protective cover , for CF 1000	CF 1000-COVER	1208306	1



Installation and mounting material - CABINET add-on

The installation of switchgear and control cabinets need not be time-consuming and occupy a large amount of space if suitable mounting devices are used and the right tool is selected. We offer a comprehensive range of products for this.

The CABINET add-on range includes mounting material and mounting devices for all aspects of control cabinet installation. DIN rails and end brackets, for example, ensure the secure attachment of electrical connecting elements and components inside the control cabinet.

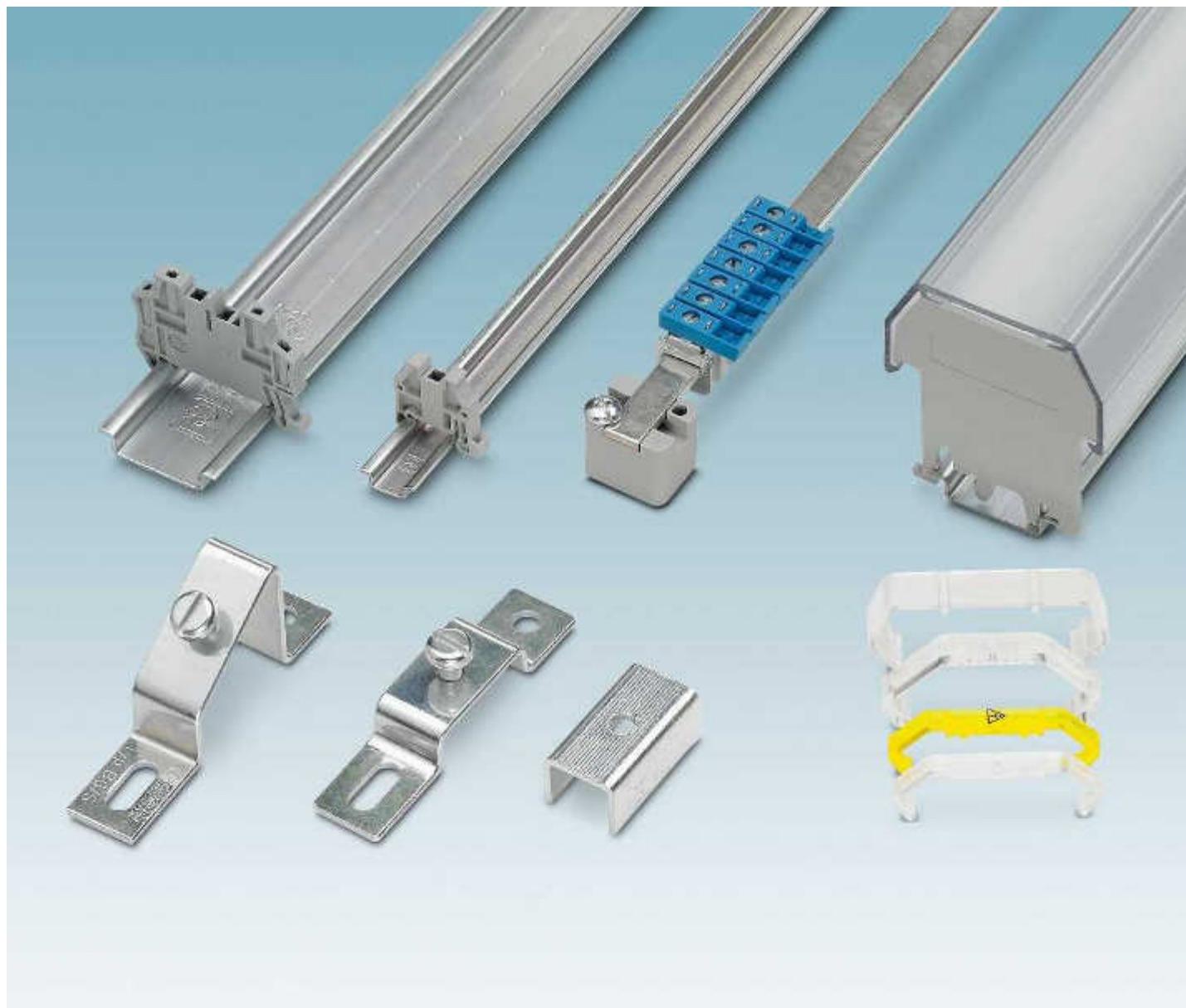
Additional security is assured by cover profiles, while shield connection clamps enable EMC-compliant wiring.

The cable management product range spans from the innovative CES space- and cost-saving cable entry system, across the extensive range of cable protection systems and cable ducts, right up to cable binders for every application.

Product range overview

Installation and mounting material	484
<hr/>	
Component mounting	
NS 15, NS 35, and NS 32 DIN rails	486
End brackets for DIN rails	498
Marking for terminal strips	500
Brackets for mounting on DIN rails	502
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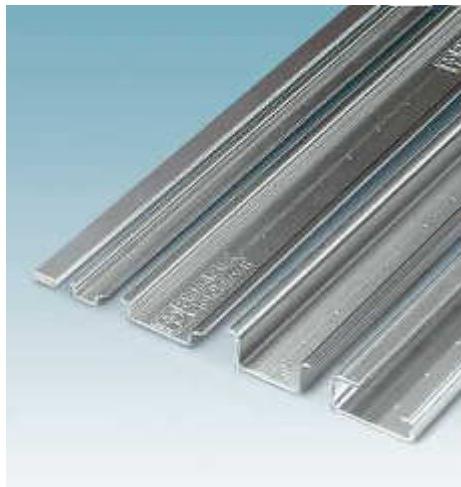
Component mounting



You can save time when securing electrical connections and components in switchgear by using suitable mounting devices. By combining the mounting accessories appropriately, you can make optimum use of the space inside the control cabinet. DIN rails form the basis for the "insides" of the control cabinet. They ensure that the DIN rail-mountable components are held securely. Phoenix Contact offers a wide range of standardized rails made from various materials. On request, they can be supplied cut to length and with pre-drilled holes. The range is rounded off by cable clamps and corresponding rails.

End brackets are used for a secure lateral hold on the components, especially in the event of jolts and vibrations in the systems. Depending on the application, they must either be fastened using screws or can simply be snapped onto the DIN rails as in the case of the CLIPFIX series. Marker carriers can be snapped onto the end brackets for greater clarity and to create a visual distinction between individual terminal strip blocks.

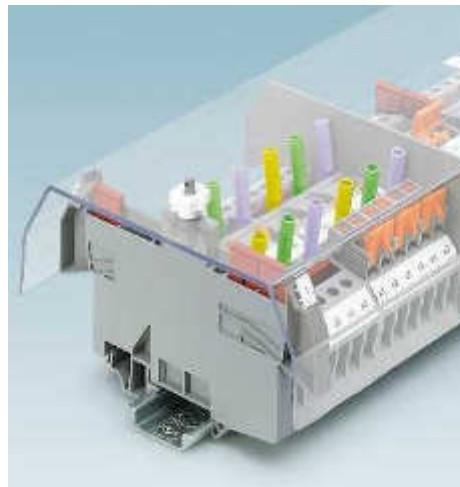
There is a wide range of cover profiles to ensure the necessary level of safety. The wide choice of cable ducts provides users with flexible and straightforward cable installation solutions that simply involve breaking out the lateral segments without the need for tools. The assembly material is rounded off by installation materials that include pick-off terminal blocks, Europe connectors, and junction box connectors.



For control cabinet engineering applications, the key features of the NS 15 and NS 35 DIN rails are their high degree of dimensional accuracy and double surface tempering. They are galvanized and feature thick layer passivation, which makes them RoHS compliant.



Used in conjunction with the NS 15 and NS 35 DIN rails, the end brackets ensure that the components remain securely attached to the rails. A comprehensive range of end brackets is available for specific applications.



Cover profiles are used to cover live parts and also provide protection against accidental actuation of terminal points or disconnect terminal blocks.



Phoenix Contact offers various connection terminal blocks, branch terminal blocks, and power terminal blocks for busbars in switchgear and control gear.



The wide range of Europe terminal blocks includes terminal blocks with and without wire protection. The individual positions can be separated easily by twisting without the need for tools. The push-in connection technology of the junction box connector series means that solid conductors or conductors with ferrules can be inserted into the terminal point with ease. Low insertion forces and high pull-out forces ensure a secure connection.



The rail-mountable socket in a standard format is as much a must in modern switchgear as in simple distributors. The socket is mounted in an exposed position to allow assembly tools, service devices, and other electrical equipment to be installed conveniently.

Component mounting

DIN rails NS 15, flat design



- The design of the DIN rails complies with European standard EN 60715
- Particular attention has been paid to a high degree of dimensional accuracy and surface tempering
- All DIN rails are also available cut to length

The DIN rails are available with various surface coatings and are suitable for the following applications:

- Zinc plated, for indoor applications
- White passivated, for indoor applications
- Zinc plated and thick layer passivated, for indoor and protected outdoor applications
- Aluminum; as a result of their improved conductivity, these versions can also be used as PEN busbars

Notes:
For dimensional drawings and ordering examples, see page 497.
For PPS ... DIN rail profile cutters, see page 372.
1) Please specify the desired length in millimeters when placing your order. See order example.
2) Please specify the desired length and borehole when placing your order. See order example.



Unperforated, zinc plated,
and thick layer passivated

Technical data				
General data		Ordering data		
Material / coating	Steel / galvanized, thick layer passivated	Type	Order No.	Pcs. / Pkt.
DIN rail, unperforated, in accordance with EN 60715 - 15 x 5.5 mm, galvanized and thick layer passivated, supply length: 2 m	silver	NS 15 UNPERF 2000MM	1401695	5
DIN rail, unperforated in accordance with EN 60715 - 15 x 5.5 mm, galvanized and thick layer passivated, cut to length according to customer specifications ¹⁾	silver	NS 15 UNPERF/...	1208089	1
DIN rail, unperforated in acc. with EN 60715 - 15 x 5.5 mm, galvanized and thick layer passivated, cut to length acc. to customer specifications and provided with mounting holes ²⁾	silver	NS 15 UNPERF/SO/...	1208092	1
DIN rail, perforated, in accordance with EN 60715 - 15 x 5.5 mm, galvanized and thick layer passivated, supply length: 2 m	silver			
DIN rail, perforated in accordance with EN 60715 - 15 x 5.5 mm, galvanized and thick layer passivated, cut to length according to customer specifications ¹⁾	silver			
DIN rail, perforated, dimensions according to EN 60715 - 15 x 5.5 mm, white passivated, flat design, supply length: 2 m	white			
DIN rail, perforated, dimensions in acc. with EN 60715 - 15 x 5.5 mm, supply length: 2 m, material: aluminum	silver			

Perforated, zinc plated,
and thick layer passivated

Perforated, white passivated



Perforated, aluminum

Technical data			Technical data			Technical data		
Steel / galvanized, passivated with a thick layer			Steel / galvanized, white passivated			Aluminum / uncoated		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
NS 15 PERF 2000MM	1401682	5	NS 15 WH PERF 2000MM	1204096	5	NS 15 AL PERF 2000MM	1401763	5
NS 15 PERF/...	1208102	1						

Component mounting

NS 15 DIN rails, flat design



- The design of the DIN rails complies with European standard EN 60715
- Particular attention has been paid to a high degree of dimensional accuracy and surface tempering
- All DIN rails are also available cut to length

The DIN rails are available with various surface coatings and are suitable for the following applications:

- Zinc plated, for indoor applications
- White passivated, for indoor applications
- Zinc plated and thick layer passivated, for indoor and protected outdoor applications
- Aluminum; as a result of their improved conductivity, these versions can also be used as PEN busbars

Notes:
For dimensional drawings and ordering examples, see page 497.
For PPS ... DIN rail profile cutters, see page 372.
1) Please specify the desired length in millimeters when placing your order. See order example.
2) Please specify the desired length and borehole when placing your order. See order example.



Unperforated, zinc plated,
and thick layer passivated

Technical data			
General data		Ordering data	
Material / coating		Steel / galvanized, thick layer passivated	
Description	Color	Type	Order No.
DIN rail, unperforated, in acc. with EN 60715 - 35 x 7.5 mm, galvanized and thick layer passivated, flat design, supply length: 2 m	silver	NS 35/ 7,5 UNPERF 2000MM	0801681
DIN rail, unperforated in accordance with EN 60715 - 35 x 7.5 mm, galvanized and thick layer passivated, flat design, cut to length according to customer specifications ¹⁾	silver	NS 35/ 7,5 UNPERF/...	1208115
DIN rail, unperforated in accordance with EN 60715 - 35 x 7.5 mm, galvanized and thick layer passivated, flat design, cut to length according to customer specifications and provided with mounting holes ²⁾	silver	NS 35/ 7,5 UNPERF/SO/...	1208128
DIN rail, unperforated, dimensions according to EN 60715 - 35 x 7.5 mm, white passivated, flat design, supply length: 2 m	white		
DIN rail, unperforated, dimensions in acc. with EN 60715 - 35 x 7.5 mm, galvanized, flat design, supply length: 2 m	silver		
DIN rail, unperforated, dimensions in acc. with EN 60715 - 35 x 7.5 mm, flat design, supply length: 2 m, Material: copper	copper-colored		
Accessories			
DIN rail end piece for DIN rail NS35/7,5	NS 35/ 7,5 CAP	1206560	100



Unperforated, white passivated



Unperforated, zinc plated



Unperforated, copper

N

Technical data			Technical data			Technical data		
Steel / galvanized, white passivated			Steel / galvanized			Copper / uncoated		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
NS 35/ 7,5 WH UNPERF 2000MM	1204122	5	NS 35/ 7,5 ZN UNPERF 2000MM	1206434	5	NS 35/ 7,5 CU UNPERF 2000MM	0801762	5
Accessories			Accessories			Accessories		
NS 35/ 7,5 CAP	1206560	100	NS 35/ 7,5 CAP	1206560	100	NS 35/ 7,5 CAP	1206560	100

Installation and mounting material - CABINET add-on

Component mounting

NS 35 DIN rails, flat design

Notes:
For dimensional drawings and ordering examples, see page 497.
For PPS ... DIN rail profile cutters, see page 372.



Unperforated, aluminum



Unperforated, stainless steel

General data	
Material / coating	
Description	Color
DIN rail, unperforated, dimensions in acc. with EN 60715 - 35 x 7.5 mm, flat design, supply length: 2 m, Material: aluminum	silver
DIN rail, unperforated, dimensions in acc. with EN 60715 - 35 x 7.5 mm, flat design, supply length: 2 m, Material: stainless steel V2A	silver

Technical data				Technical data			
Aluminum / uncoated				Stainless steel V2A / uncoated			
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.		
NS 35/ 7,5 AL UNPERF 2000MM	0801704	5	NS 35/ 7,5 V2A UNPERF 2000MM	0801377	5		
Accessories				Accessories			
NS 35/ 7,5 CAP	1206560	100	NS 35/ 7,5 CAP	1206560	100		

DIN rail end piece
for DIN rail NS35/7,5

NS 35 DIN rails, flat design, perforated

Notes:

For PPS ... DIN rail profile cutters, see page 372

1) Please specify the desired length in millimeters when placing your order. See order example.



Perforated, zinc plated, and thick layer passivated



Perforated, zinc plated

General data		Technical data			Technical data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Material / coating		Steel / galvanized, thick layer passivated			Steel / galvanized		
DIN rail, perforated, in acc. with EN 60715 - 35 x 7.5 mm, galvanized and thick layer passivated, flat design, supply length: 2 m	silver	NS 35/ 7,5 PERF 2000MM	0801733	5			
DIN rail, perforated, in accordance with EN 60715 - 35 x 7.5 mm, galvanized and thick layer passivated, flat design, for cabinet width / depth of 0.8 m	silver	NS 35/ 7,5 PERF 755MM NS 35/ 7,5 PERF 1155MM	1207640 1207666	10 10			
Length: 755 mm For cabinet width / depth of 1.2 m, supply length: 1155 mm	silver silver						
DIN rail, perforated in accordance with EN 60715 - 35 x 7.5 mm, galvanized and thick layer passivated, flat design, cut to length according to customer specifications ¹⁾	silver	NS 35/ 7,5 PERF/...	1208131	1	NS 35/ 7,5 ZN PERF 2000MM	1206421	5
DIN rail, perforated, dimensions in acc. with EN 60715 - 35 x 7.5 mm, galvanized, flat design, supply length: 2 m	silver						
DIN rail, perforated, in accordance with EN 60715 - 35 x 7.5 mm, galvanized and thick layer passivated, flat design, for cabinet width / depth of 0.8 m	silver						
Length: 755 mm	silver	NS 35/ 7,5 PERF 755MM	1207640	10			
DIN rail end piece for DIN rail NS35/7,5		Accessories			Accessories		
		NS 35/ 7,5 CAP	1206560	100	NS 35/ 7,5 CAP	1206560	100

Installation and mounting material - CABINET add-on

Component mounting

NS 35 DIN rails, tall design

N

Notes:
For dimensional drawings and ordering examples, see page 497.
For PPS ... DIN rail profile cutters, see page 372.
1) Please specify the desired length in millimeters when placing your order. See order example.
2) Please specify the desired length and borehole when placing your order. See order example.



Unperforated, zinc plated,
and thick layer passivated



Unperforated, white passivated

General data	
Material / coating	
Description	Color
DIN rail, unperforated, in acc. with EN 60715 - 35 x 15 mm, galvanized and thick layer passivated, tall design, supply length: 2 m	silver
DIN rail, unperforated in accordance with EN 60715 - 35 x 15 mm, galvanized and thick layer passivated, tall design, cut to length according to customer specifications ¹⁾	silver
DIN rail, unperforated in accordance with EN 60715 - 35 x 15 mm, galvanized and thick layer passivated, tall design, cut to length according to customer specifications and provided with mounting holes ²⁾	silver
DIN rail, unperforated, similar to EN 60715 - 35 x 15 mm, 1.5 mm thick, white passivated, tall design, supply length: 2 m	white
DIN rail, unperforated similar to EN 60715 - 35 x 15 mm, 1.5 mm thick, tin-plated, tall design, supply length: 2 m	silver
DIN rail, unperforated similar to EN 60715 - 35 x 15 mm, 1.5 mm thick, tall design, supply length: 2 m, material: copper	copper-colored
DIN rail, unperforated in accordance with EN 60715 - 35 x 15 mm, 2.3 mm thick, galvanized and thick layer passivated, tall design, for universal cut, supply length: 2 m	silver
for DIN rail NS35/15	

Technical data			Technical data		
Steel / galvanized, thick layer passivated			Steel / galvanized, white passivated		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
NS 35/15 UNPERF 2000MM	1201714	5			
NS 35/15 UNPERF/...	1208144	1			
NS 35/15 UNPERF/SO/...	1208157	1	NS 35/15 WH UNPERF 2000MM	1204135	5
Accessories			Accessories		
NS 35/15 CAP	1206573	100	NS 35/15 CAP	1206573	100



Unperforated, zinc plated



Unperforated, copper



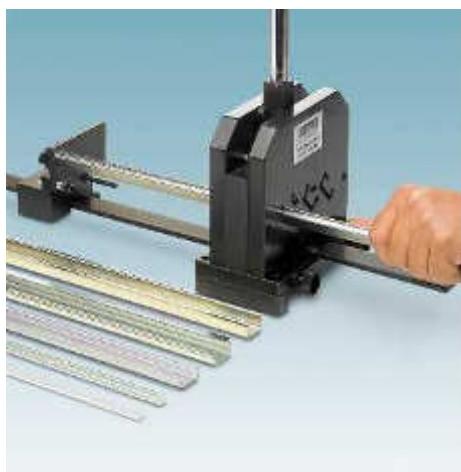
Unperforated, zinc plated, and thick layer passivated, material thickness 2.3 mm

Technical data			Technical data			Technical data		
Steel / galvanized			Copper / uncoated			Steel / galvanized, thick layer passivated		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
NS 35/15 ZN UNPERF 2000MM	1206586	5	NS 35/15 CU UNPERF 2000MM	1201895	5	NS 35/15-2,3 UNPERF 2000MM	1201798	5
Accessories			Accessories			Accessories		
NS 35/15 CAP	1206573	100	NS 35/15 CAP	1206573	100			

Installation and mounting material - CABINET add-on

Component mounting

NS 35 DIN rails, tall design, perforated



Notes:

For dimensional drawings and ordering examples, see page 497.

For PPS ... DIN rail profile cutters, see page 372.

1) Please specify the desired length in millimeters when placing your order. See order example.



Perforated, zinc plated, and thick layer passivated

- The design of the DIN rails complies with European standard EN 60715
- Particular attention has been paid to a high degree of dimensional accuracy and surface tempering
- All DIN rails are also available cut to length

The DIN rails are available with various surface coatings and are suitable for the following applications:

- Zinc plated, for indoor applications
- White passivated, for indoor applications
- Zinc plated and thick layer passivated, for indoor and protected outdoor applications
- Aluminum and copper. As a result of their improved conductivity, these versions can also be used as PEN busbars

Technical data				
General data		Ordering data		
Material / coating	Steel / galvanized, thick layer passivated	Type	Order No.	Pcs. / Pkt.
DIN rail, perforated , in acc. with EN 60715 - 35 x 15 mm, galvanized and thick layer passivated, tall design, supply length: 2 m	silver	NS 35/15 PERF 2000MM	1201730	5
DIN rail, perforated , in accordance with EN 60715 - 35 x 15 mm, galvanized and thick layer passivated, tall design, for cabinet width / depth of 0.8 m Length: 755 mm For cabinet width / depth of 1.0 m, supply length: 955 mm For cabinet width / depth of 1.2 m, supply length: 1155 mm	silver	NS 35/15 PERF 755MM NS 35/15 PERF 955MM NS 35/15 PERF 1155MM	1207679 1207682 1207695	10 10 10
DIN rail, perforated in accordance with EN 60715 - 35 x 15 mm, galvanized and thick layer passivated, tall design, supply length: 2 m, cut to length according to the customer specifications ¹⁾	silver	NS 35/15 PERF/...	1208160	1
DIN rail, perforated , according to EN 60715 - 35 x 15 mm, white passivated, tall design, supply length: 2 m	white			
DIN rail, perforated similar to EN 60715 - 35 x 15 mm, 1.5 mm thick, tin-plated, tall design, supply length: 2 m	silver			



Perforated, white passivated



Unperforated, zinc plated

Technical data			Technical data		
Steel / galvanized, white passivated			Steel / galvanized		
Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
NS 35/15 WH PERF 2000MM	0806602	5	NS 35/15 ZN PERF 2000MM	1206599	5

Installation and mounting material - CABINET add-on

Component mounting

NS 32 DIN rails

Notes:

For PPS ... DIN rail profile cutters, see page 372.



**Unperforated, galvanized,
and thick layer passivated**

General data		Technical data		
Material / coating		Steel / galvanized, thick layer passivated		
Description		Color	Type	Order No.
DIN rail, unperforated, in accordance with EN 60715 - G32, supply length: 2 m, galvanized and thick layer passivated		silver	NS 32 UNPERF 2000MM	1201015
DIN rail, perforated, in accordance with EN 60715 - G32, galvanized and thick layer passivated, supply length: 2 m		silver	NS 32 PERF 2000MM	1201002

NS 35 DIN rails, tall design that supports the use of slide nuts

Notes:

For dimensional drawings and ordering examples, see page 497.

- The NS 35/15 AL DIN rail has been designed to accommodate GLM ... slide nuts
- The slide nuts even allow components without an additional snap-on foot to be mounted



NS 35, 15 mm high DIN rail with slide nut guide

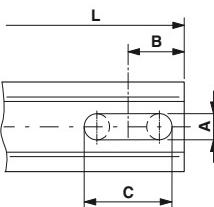
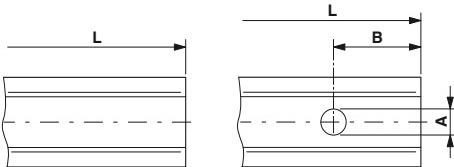
Technical data					
Dimensions		Width	Length	Height	
General data		[mm]	35	2000	15
Material		Aluminum			
Ordering data					
Description	Color	Type	Order No.	Pcs. / Pkt.	
DIN rail, unperforated similar to EN 60715 - 35 x 15 mm, deep-drawn, tall design, with slide nut guide, supply length: 2 m	silver	NS 35/15 AL UNPERF 2000MM	1201756	5	
DIN rail, unperforated similar to EN 60715 - 35 x 15 mm, deep-drawn, tall design, with slide nut guide, cut to length according to customer specifications	silver	NS 35/15 AL UNPERF/...	1210213	1	
Slide nut, for DIN rail NS 35/15-AL, for fixing devices, material: steel					
M4	silver	GLM 4	1201769	100	
M5	silver	GLM 5	1201772	100	
M6	silver	GLM 6	1201785	100	

Example configuration for**NS 35/15 UNPERF/SO/...:**

(minimum order quantity 20 units)

When ordering 20 unperforated NS 35/15 DIN rails with 6 mm Ø end holes at both ends (as 20 mm elongated holes, the hole center of which is 50 mm from the end of the rail) with a length of 550 mm, the following information must be given:

Pcs.	Order No.	Length in mm	Dim. A	Dim. B	Dim. C
20	/ 1208157	/ 550	/ 6	/ 50	/ 20



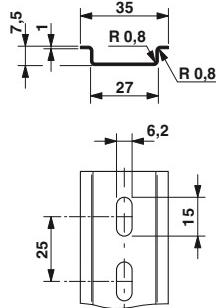
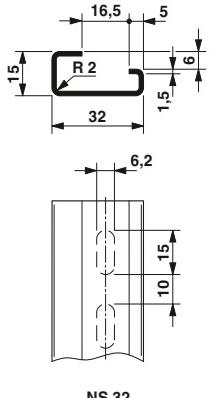
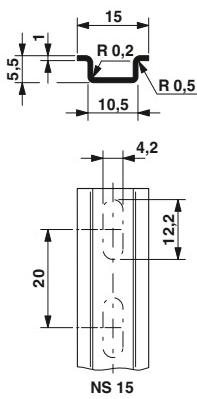
L = length
A = hole diameter [mm]
B = distance between end and hole center [mm]
C = length of elongated hole [mm]
The following dimensions are possible:
Round hole: C = 0
Elongated hole: C = 10, 15, 20 or 25 mm

Example configuration for**NS 35/7,5 UNPERF/...:**

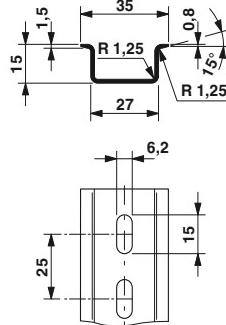
(minimum order quantity 20 units)

When ordering 20 unperforated NS 35/7,5 DIN rails without end holes with a length of 1750 mm, the following information must be given:

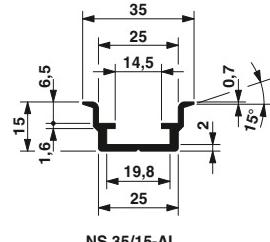
Pcs.	Order No.	Length in mm
20	/ 1208115	/ 1750

Dimensional drawings for DIN rails

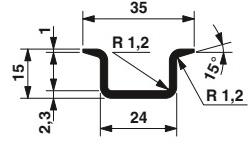
NS 35/7,5



NS 35/15



NS 35/15-AL



NS 35/15-2,3

Installation and mounting material - CABINET add-on

Component mounting

Snap-on end bracket, for NS 15 and NS 35 DIN rails

- Phoenix Contact has engineered its CLIPFIX end brackets to maintain a secure grip on the various DIN rail systems
- Design width of just 5.2 mm
- Parking facility for bridges and plugs
- Large area for labeling



End bracket for NS 15 DIN rail



End bracket for NS 35 DIN rail

Technical data			Technical data		
Dimensions	[mm]	Width 5.2	Length 22	Height 22.6	Width 5.15
Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type
End bracket, for snapping onto NS 15, 5.2 mm wide, labeling with ZB 5 and ZBF 5, KLM, parking facilities for bridges and test accessories	gray	CLIPFIX 15	3022263	50	CLIPFIX 35-5
End bracket, for snapping onto NS 35, 5.15 mm wide, can be marked with ZB 5 and UCT-EM (30X5), parking option for bridges and test plugs	gray				3022276
End bracket, for snapping onto NS 35, 9.5 mm wide, can be labeled	gray				CLIPFIX 35
					3022218
					50

Screw-on end bracket, for NS 35 and NS 32 DIN rails

- With universal foot for NS 35 and NS 32 DIN rails
- Tall and flat designs
- Large area for labeling



For NS 35 and NS 32 DIN rails



For multi-level terminal blocks on NS 35 and NS 32 DIN rails

Technical data			Technical data		
Dimensions	[mm]	Width 9.5	Length 50.5	Height 35.3	Width 10
Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type
End bracket, to screw on, for NS 35 and NS 32, can be labeled with ZB 6, KLM, KLM-A, and UBE	gray	E/UK	1201442	50	E/UK 1
Universal end bracket, to screw on, for NS 35 and NS 32, for supporting the ends of double-level and three-level terminal blocks, can be labeled with ZB 10	gray				1201413
					50

Screw-on end bracket, for NS 15 DIN rail

The E/MBK end bracket has been specially designed for the MBK miniature IEC terminal blocks.

- Can be screwed onto NS 15 DIN rails
- Can be mounted directly on the mounting plate as an MBK terminal block base
- Large area for labeling



For miniature IEC terminal blocks
on NS 15 DIN rail

For NS 15 DIN rail

Dimensions		Technical data			Technical data	
		Width	Length	Height	Width	Length
General data		6.1	22	11.4	6.1	21.2
Material		PA			PA	
Tightening torque		0.4 - 0.5 [Nm]			0.4 - 0.5 [Nm]	
Inflammability class according to UL 94		V2			V2	
Description		Ordering data			Ordering data	
Color		Type	Order No.	Pcs. / Pkt.	Type	Order No.
End bracket, for snapping onto NS 15, for slide-on miniature terminal blocks, can be fastened with a screw, can be labeled with KLM 1		E/MBK	1401637	100	E/MK 1	1421659
gray						100
End bracket, for screwing onto NS 15, 6.1 mm wide, can be fastened with a screw, can be labeled with KLM 1						
gray						

Screw-on end bracket, for NS 35 DIN rail

- The E/AL-NS 35 provides optimum support for large terminal blocks and devices
- Large area for labeling



For NS 35 DIN rail

For terminal blocks from 50 mm²
on NS 35 DIN rails

Dimensions		Technical data			Technical data	
		Width	Length	Height	Width	Length
General data		9.5	48.6	32.8	10	59
Material		PA			Aluminum	
Tightening torque		0.4 - 0.5 [Nm]			0.4 - 0.5	
Inflammability class according to UL 94		V2			-	
Description		Ordering data			Ordering data	
Color		Type	Order No.	Pcs. / Pkt.	Type	Order No.
End bracket, for screwing onto NS 35, can be equipped with terminal strip marker KLM-A or ZB 8		E/NS 35 N	0800886	50	E/AL-NS 35	1201662
gray						10
Aluminum end bracket, for screwing on, for end support of 50 - 300 mm ² terminal blocks, can be labeled with ZB 10, for mounting on NS 35...						
silver						

Installation and mounting material - CABINET add-on

Component mounting

Marking for terminal strips

- The KLM has been specially developed for the CLIPFIX end brackets
- The precise engagement mechanism allows infinite adjustment of the labeling area height
- The KLM 3-L is suitable for multi-level terminal blocks and can be cut at two defined points



For CLIPFIX end brackets,
can be labeled with snap-on label

For CLIPFIX end brackets,
can be labeled with label

Dimensions			Technical data			Technical data		
General data		[mm]	Width	Length	Height	Width	Length	Height
Material	PA		12.5	22	42	10	22	27
Inflammability class according to UL 94	V2							
Temperature range	-40 ... 100	[°C]						
Components	Halogen-free							
Ordering data			Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	
Terminal strip marker, adjustable height, for CLIPFIX ... end bracket, can be labeled with SS-ZB Lettering field size: 20 x 8 mm	gray	KLM 2	0807575	100	KLM 3	0811969 0814788	100 100	
Terminal strip marker, adjustable height, for CLIPFIX ... end bracket, can be labeled with EML (20x8) label or with B-STIFT or X-PEN	gray							
Can be cut to length	gray							

Marking for terminal strips



For E/MK and E/MBK end brackets

For E/UK and CLIPFIX 35 end brackets

General data			Technical data			Technical data		
Description		Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Material	ABS							
Inflammability class according to UL 94	HB							
Temperature range	-40 ... 80	[°C]						
Components	free from silicone and halogen							
Ordering data			Ordering data			Ordering data		
Terminal strip markers, for E/MK, E/MK 1, and E/MBK end bracket, lettering field: 24 x 4 mm	transparent	KLM 1	1004319	100	KLM	1004306	100	
Terminal strip markers, for E/UK or CLIPFIX 35 end brackets, lettering field: 25 x 6 mm	transparent							
Insert strips for thermal transfer printers, 5000 labels p. roll	white	EMT (24X4)R	0816265	1	EMT (25X6)R	0817264	1	
Lettering field size: 24 x 4 mm, 5000 labels per roll								
Lettering field size: 25 x 6 mm, 5000 labels per roll								

Marking for terminal strips

Notes:

1) Please specify the required marking with order.

For E/UK, E/NS 35 N,
and CLIPFIX 35 end brackets

For end bracket and DIN rail mounting

		Technical data		Technical data	
General data		ABS		PA	
Material		HB		V2	
Inflammability class according to UL 94		-40 ... 80		-40 ... 100	
Temperature range [°C]		free from silicone and halogen		free from silicone and halogen	
		Ordering data		Ordering data	
Description	Color	Type	Order No.	Pcs. / Pkt.	Type
Terminal strip markers, for strip marking, adjustable height, for use with E/UK, E/NS 35 N or CLIPFIX 35 end brackets, lettering field: 44 x 7 mm	transparent	KLM-A	1004348	100	UBE
Terminal strip marker carriers, for marking terminal groups, for E/UK end bracket, lettering field: 40 x 17 mm Hood material: PE	gray				UBE/D
Terminal strip marker carrier, for marking terminal block groups, for assembly on NS 32... or NS 35... DIN rail, lettering field size: 40 x 17 mm Hood material: PE	gray				
		Accessories		Accessories	
Insert strip for thermal transfer printer, for UBE/D or UBE terminal strip marker Lettering field size: 40 x 17 mm, 2300 labels p. roll	white			EMT (40X17)R	0817293
Insert strip for laser printer, perforated, for KLM-A terminal strip marker Lettering field size: 44 x 7 mm Lettering field size: 40 x 17 mm, 1 sheet = 56 labels	white white	ESL 44X 7	0808244	10	ESL 40X17
Special printing insert strips, marking according to customer requirements ¹⁾ Lettering field size: 44 x 7 mm Lettering field size: 40 x 17 mm, 1 sheet = 56 labels	white white	ESL 44X 7 CUS	0824404	1	ESL 40X17 CUS



Installation and mounting material - CABINET add-on

Component mounting

Angled brackets for fixing DIN rails

- The BG/S brackets can be used to fix DIN rails at a distance from the mounting surface
- 30° tilt angle



Angled bracket, low



Angled bracket, high

Dimensions			Technical data			Technical data		
General data		[mm]	Width	Length	Height	Width	Length	Height
Material	Steel		19.7	87	35.4	20	84	46
Description	Color		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Angled bracket , for fixing DIN rails at an angle of 30°, with M6 screw, galvanized and thick layer passivated			BG/S	1201086	10	BG/SH	1201099	10
silver			BG/SA	1201604	10	BG/SHA	1201594	10

Flat brackets for fixing DIN rails

- The BG/F brackets can be used to fix DIN rails at a distance from the mounting surface



Flat brackets with lugs



Flat brackets without lugs

Dimensions			Technical data			Technical data		
General data		[mm]	Width	Length	Height	Width	Length	Height
Material	Steel		20	84	12	20	37	15
Description	Color		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Flat bracket , for fixing DIN rails 12 mm above the base, with M6 screw, galvanized and thick layer passivated			BG/F	1201060	10	BG/F 1	1201112	10
silver								
Flat bracket , is screwed with DIN rails 15 mm above the base, fixing hole: 6.5 mm Ø, galvanized and thick layer passivated								
silver								

Universal adapter

- The universal adapters are used to secure and hold electrical or electronic switching devices
- They allow fully insulated mounting of components or DIN rails



For NS 35 and NS 32 DIN rails

Technical data			
Dimensions	Width 10	Length 42.6	Height 19
General data	PA		
Material	V2		
Inflammability class according to UL 94			
Ordering data			
Description	Color	Type	Order No. Pcs. / Pkt.
Universal rail adapter, for NS 35... or NS 32... DIN rail, for accommodation of switching devices, 10 mm wide	gray gray	USA 10 USA 10/4,6	1201578 1202713 10 10
For M3 screws			
For M5 screws			

Mounting accessories

- The support can be used for totally insulated DIN rail support
- The NS 35/... CAP end caps can be attached to the ends of NS 35/7,5 and NS 35/15 DIN rails



Support, insulated

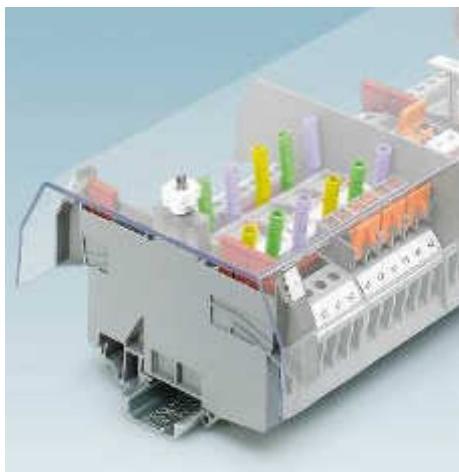


Protective caps for DIN rails

Technical data			Technical data		
Dimensions	Width 38	Length 35	Height 21	Width 7	Length 37.5
General data	PA			PP	
Material	V2			HB	
Inflammability class according to UL 94					
Ordering data			Ordering data		
Description	Color	Type	Order No. Pcs. / Pkt.	Type	Order No. Pcs. / Pkt.
Support, for fixing DIN rails 21 mm above the mounting surface, with M6 screw, countersunk fixing hole 6.1 mm Ø, can also be used for protective insulation of terminal strips	gray	AB/NS	1201141 10	NS 35/ 7,5 CAP NS 35/15 CAP	1206560 1206573 100 100
DIN rail end piece for DIN rail NS35/7,5 for DIN rail NS35/15	gray gray				

Component mounting

Cover profiles



- Cover profiles provide protection against unauthorized use of terminal strips
- This profile has been specially adapted to the contour of the measuring transducer disconnect terminal blocks
- The cover can be securely snapped onto the corresponding APH-ME end brackets and sealed as an option
- The AH-ME cover, which is enclosed on all sides, is snapped onto the end brackets and can be optionally sealed



Cover profile and hood, sealable

General data		Technical data		
Material		PVC		
Temperature range	[°C]	-15 ... 65		
Ordering data				
Description	Color	Type	Order No.	Pcs. / Pkt.
Cover profile, supply length 1 m	transparent	APH-ME METER	3034361	10
Cover profile, please specify the desired length in cm	transparent	APH-ME CM	3034345	1
Covering hood, for the contact and dust-protected encapsulation of the components	transparent	AH-ME	3240265	5

Holder for AP-ME cover profiles

- The APH-ME end bracket is used in conjunction with the AP-ME cover
- It provides facilities for retaining FBS ...-8 plug-in bridges and is optionally sealable
- The APT-ME holder serves as a partition plate or intermediate support in the case of long terminal strips



Cover profile end bracket, sealable



Cover profile holder

General data		Technical data		
Material		PA		
Inflammability class according to UL 94		V2		
Temperature range	[°C]	-40 ... 115		
Ordering data				
Description	Color	Type	Order No.	Pcs. / Pkt.
End bracket, for AP-ME cover profile, sealable, with storage option for plug-in bridges	gray	APH-ME	3034374	10
Holder, for AP-ME cover profile	gray	APT-ME	3034358	10

Cover profiles

- Cover profiles provide protection against unauthorized use of terminal strips
- Large-area labeling possible with AP-ES insert strips

Notes:

1) When ordering please specify the desired length in cm.
Accuracy 1 mm.



Cover profile for mounting on a DIN rail

Cover profile for mounting on an end bracket

		Technical data		Technical data	
General data		PVC	V2	Polycarbonate PC	V2
Material					
Inflammability class according to UL 94					
Temperature range [°C]		-15 ... 65	-40 ... 115		
Description		Type	Order No.	Pcs. / Pkt.	Order No.
Cover profile , for terminal strips, can be labeled with AP-ES insert strips, cover profile carriers should be placed at the ends and at intervals of approx. 40 cm, maximum supply length: 1 m ¹⁾		AP 2 CM	5022889	1	
Can be snapped onto AP 2-TU cover profile carrier		transparent	AP 3 CM	5022876	1
Can be snapped onto AP 3-TU or AP 3-TNS 35		transparent			
Cover profile carrier , for mounting on NS 32 or NS 35/7,5 DIN rail, for fixing the AP cover profile, 2 mm thick, material: PA		gray gray	AP 2-TU AP 3-TU	5022630 5022656	50 50
Sealable cover profile , for mounting on NS 35 DIN rail, for fixing the AP 3 cover profile, with plastic M5 knurled nut, space requirement: 13 mm		gray	AP 3-TNS 35	5022672	10
U-shaped cover , inner dimensions: 100 x 38 mm, 2 mm thick, maximum supply length: 2.05 m, also required: 2 E/UK end brackets and 2 VAH cover holders, made acc. to length specifications ¹⁾		transparent			
Adjustable cover holder , for mounting covers (up to 3 mm thick), additional requirements: one E/UK or CLIPFIX 35 end bracket, material PA		gray	A/U CM	5021110	1
		white	VAH	1201468	10
Accessories					
Insert strips , for group marking, for sliding into the AP 2 and AP 3 cover profile, cardboard, lettering field: 35 x 500 mm		AP-ES	5022685	10	

Component mounting

Cover profiles for UK terminal blocks



- Covering of live parts
- Protection against accidental actuation of terminal points or disconnect terminal blocks
- Protection against environmental influences
- Can be labeled



Single cover for UK terminal blocks



Technical data

General data

Material	ABS
Inflammability class according to UL 94	HB
Temperature range	[°C]
Components	-40 ... 80 free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Single cover, for covering the UK 2,5 neutral terminal block, snap fit	transparent	EA 4	0805360	50
Single cover, for covering the UK 3 N, UK 5 N, UK 6 N, UK 4-FSR, UK 4FS/FS, UK 4-LOER terminal blocks, snap fit	transparent	EA 5	1024014	100
Single cover, for covering the UK 16 neutral terminal block, snap fit	transparent	EA 7	1024250	100
Single cover, for covering the UK 3 N, UK 5 N, UK 6 N, UK 4-FSR, UK 4FS/FS, UK 4-LOER terminal blocks, snap fit, black print: lightning flash	yellow	EA 5-WS	1024085	100
Single cover, for covering the UK 35, UIK 35 terminal block, cannot be labeled, snap fit	transparent	EA 11	1024263	50

Cover profiles

- Covering of live parts
- Protection against accidental actuation of terminal points or disconnect terminal blocks
- Protection against environmental influences
- Can be labeled



Cover profile, hinged for DIN rail mounting

Technical data			
Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Material Inflammability class according to UL 94 Temperature range Components	Polycarbonate PC V2 -40 ... 115 free from silicone and halogen		
Holding profile , is snapped into the APK-TU cover holder, with groove for zack marker strip ZB 5 up to ZB 10 , length: 2 m	transparent APK 1	5022795	10
Holding profile , is snapped into the APK-TU cover holder, with groove for zack marker strip ZB 5 up to ZB 10 , length: 2 m	gray APK-HP	5022818	2
Cover profile holder , 10 mm width, for mounting on NS 32 or NS 35/7,5, for fixing the holding profile APK-HP, can be labeled with ZB 10 zack marker strip, material: PA	gray APK-TU	5022805	10

Installation and mounting material - CABINET add-on

Busbars

Neutral busbar



3 x 10 mm



6 x 6 mm

Technical data			Technical data			
Dimensions	Width	Length	Height	Width	Length	
[mm]	10	1000	3	6	1000	
General data	Copper	Copper				
Material	Copper			Copper		
Ordering data			Ordering data			
Description	Type	Order No.	Pcs. / Pkt.	Type	Order No.	
PEN conductor busbar, 3 x 10 mm, 1 m long, material: copper, tin-plated, nominal current: 140 A	NLS-CU 3/10 SN 1000MM	0402174	10	NLS-CU 6/6 SN 1000MM	0402161	
silver					10	
PEN conductor busbar, in accordance with DIN VDE 0611-4, 6 x 6 mm, 1 m long, material: copper, tin-plated, nominal current: 140 A						
silver						

Supports for neutral busbars

Y



Support frame for SK shield connection terminal blocks

Y Y



Support, multi-level, insulated

Technical data			Technical data		
Dimensions	Width	Length	Height	Width	Length
[mm]	19.4	23.4	21.7	19	42
General data	PA			PA	
Material	V2			V2	
Ordering data			Ordering data		
Description	Type	Order No.	Pcs. / Pkt.	Type	Order No.
Support, insulated, with retaining screw, for 3 x 10 mm or 6 x 6 mm busbars	AB/SS	0404428	10	AB2/SS	0404431
gray				ABN 2/SS	0404460
Double support, insulating material, optionally for use with 3 x 10 mm or 6 x 6 mm neutral busbar, height: 48 mm					10
Height 48 mm					10
Height 36.8 mm	gray				
Triple support frame, made from insulating material	gray			AB3/SS	0800086
					10

Power terminal blocks

10 (16) mm², 76 A, power terminal block35 (35) mm², 125 A, power terminal block

Technical data			Technical data		
Dimensions	[mm]		Width	Length	Height
8	40	36	I _{max.} [A]	max. Ø [mm ²]	AWG
76				0.5 - 16	20 - 6
Rated data			IEC	UL/CUL	CSA
Nominal current / cross section	[A] / [mm ²]	57 / 10			IEC/EN 60079-7
Connection capacity		solid	stranded	Ferrule	
1 conductor	[mm ²]	0.5 - 16	0.5 - 10	Without / with plastic sleeve	
Two conductors (of the same type)	[mm ²]	0.5 - 10	0.5 - 10	0.5 - 10	0.75 - 35
General data					
Stripping length	[mm]	14			14
Screw thread		M5			M6
Tightening torque	[Nm]	2.5 - 3			3.2 - 3.7
Ordering data			Ordering data		
Description	Color	Type	I _{max}	Order No.	Pcs. / Pkt.
Power terminal block, copper, nickel-plated	aluminum	EK 116		0401010	10
				EK 135	
					0401023
					10

Branch terminal blocks

35 (35) mm², 125 A, branch terminal

Technical data					
Dimensions	[mm]		Width	Length	Height
12	40	36	I _{max.} [A]	max. Ø [mm ²]	AWG
125				0.75 - 35	18 - 2
Rated data			IEC	UL/CUL	CSA
Nominal current / cross section	[A] / [mm ²]	125 / 35	- / -		IEC/EN 60079-7
Connection capacity		solid	stranded	Ferrule	
1 conductor	[mm ²]	0.75 - 35	0.75 - 35	Without / with plastic sleeve	0.75 - 35
Two conductors (of the same type)	[mm ²]	0.75 - 10	0.75 - 10	0.75 - 10	-
General data					
Stripping length	[mm]	15			
Screw thread		M6			
Tightening torque	[Nm]	3.2 - 3.7			
Ordering data			Ordering data		
Description	Color	Type	I _{max}	Order No.	Pcs. / Pkt.
Branch terminal block, for connection to copper bars up to 5 mm thick	aluminum	AZK 35		0702997	10

- A branch of flat copper busbars often has to be produced in switch systems
- This can be done easily with the branch terminal block because the terminal block can be attached and firmly clamped anywhere on a copper rail (up to max. 5 mm thick) later on

Busbars

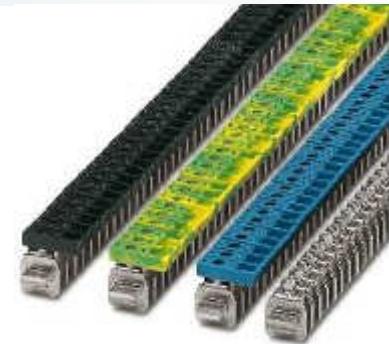
L/N/PE connection terminal blocks



– In electrical systems subject to the setup requirements of DIN VDE 0100 or IEC 60204-1/EN 60204-1/VDE 0113-1, N, PE or phase conductor L are often connected to central busbars. This requires the conductor and/or terminal block to be clearly labeled for the corresponding circuit.

The connection terminal blocks satisfy these requirements in several ways:

- Through individual labeling of each terminal block
- By their blue, green-yellow or black colored housings
- Large labeling possible with ZB, UC-TM, UCT-TM



4 (6) mm², 41 A, connection terminal blocks

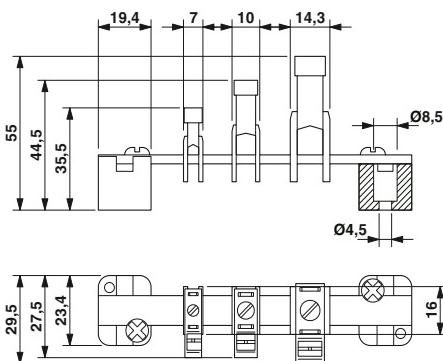


Technical data

Dimensions	[mm]	Width 7	Length 23.7	Height 23.6	
Max. electrical data		I _{max} [A] 41	max. Ø [mm ²] 0.5 - 6	AWG 20 - 10	
Rated data		IEC	UL/CUL	CSA	IEC/ EN 60079-7
Rated voltage	[V]	-	300	-	-
Nominal current / cross section	[A] / [mm ²]	41 / 4	20 / -	-	-
Rated cross section	[mm ²]	4	-	-	-
Cross section range	AWG	20 - 10	22-12	-	-
Connection capacity		solid	stranded	Ferrule	Without / with plastic sleeve
1 conductor	[mm ²]	0.5 - 6	0.5 - 4	0.5 - 6	0.5 - 6
Two conductors (of the same type)	[mm ²]	0.5 - 2.5	0.5 - 2.5	0.5 - 2.5	0.5 - 2.5
Two stranded conductors with a TWIN ferrule	[mm ²]				
General data					
Stripping length	[mm]	16			
Screw thread		M4			
Tightening torque	[Nm]	1.5 - 1.8			
Insulating material		PA			
Inflammability class according to UL 94		V2			

Ordering data

Description	Color	Type	I _{max}	Order No.	Pcs. / Pkt.
Connection terminal block, steel, pushed onto NLS neutral busbar, can be labeled with ZB ...	black	AKG 4 BK		0421032	50
Up to 6 mm ² solid, 7 mm wide	green-yellow	AKG 4 GNYE		0421029	50
Up to 6 mm ² solid, 7 mm wide	blue	AKG 4 BU		0421016	50
Without insulating cap	silver	AK 4		0404017	50
Connection terminal block, steel, pushed onto NLS neutral busbar, can be labeled with ZB ...	black				
Up to 16 mm ² solid, 10 mm wide	green-yellow				
Up to 16 mm ² solid, 10 mm wide	blue				
Without insulating cap	silver				
Connection terminal block, steel, pushed onto NLS neutral busbar, can be labeled with ZB ...	black				
Up to 35 mm ² solid, 14.3 mm wide	green-yellow				
Up to 35 mm ² solid, 14.3 mm wide	blue				
Without insulating cap	silver				



16 (16) mm², 76 A, connection terminal blocks35 (35) mm², 125 A,
connection terminal blocks

G c UL us PC

G c UL us PC

Technical data			
Width	Length	Height	
9.8	23.7	29	
I _{max} [A]		max. Ø [mm ²]	AWG
76		1.5 - 16	16 - 6
IEC	UL/CUL	CSA	IEC/ EN 60079-7
-	300	-	-
76 / 16	50 / -	65 / -	-
16	-	-	-
16 - 6	18-6	18-6	-
solid	stranded	Ferrule	
		Without / with plastic sleeve	
1.5 - 16	1.5 - 16	1.5 - 16	1.5 - 16
1.5 - 6	1.5 - 6	1.5 - 6	-
			1.5 - 10
16			
M5			
2.5 - 3			
PA			
V2			

Technical data			
Width	Length	Height	
14.3	27	39	
I _{max} [A]		max. Ø [mm ²]	AWG
125		2.5 - 35	14 - 2
IEC	UL/CUL	CSA	IEC/ EN 60079-7
-	300	-	-
	125 / 35	115 / -	135 / -
	35	-	-
	14 - 2	18-2	18-2
solid	stranded	Ferrule	
		Without / with plastic sleeve	
2.5 - 35	2.5 - 35	2.5 - 35	2.5 - 35
1.5 - 16	1.5 - 16	1.5 - 16	-
			1.5 - 10
16			
M6			
3.2 - 3.7			
PA			
V2			

Ordering data			
Type	I _{max}	Order No.	Pcs. / Pkt.
AKG 16 BK		0423030	50
AKG 16 GNYE		0423027	50
AKG 16 BU		0423014	50
AK 16		0404033	50
AKG 35 BK		0424039	50
AKG 35 GNYE		0424026	50
AKG 35 BU		0424013	50
AK 35		0404046	50

Installation and mounting material - CABINET add-on

Connection terminal blocks and sockets

Europe connectors

Notes:
For more variants, see www.phoenixcontact.net/products .



- The Europe connectors for conductors with a cross section of up to 16 mm² feature wire protection
- Particularly suitable for finely stranded conductors, including those without ferrules
- Insulating housing made from halogen-free polyamide
- High-quality metal parts with corrosion-resistant surfaces
- Secure fixing in housing



2.5 (2.5) mm², 24 A, 12-pos.

CE UL CSA

Technical data				
Dimensions	[mm]	Width 16.2	Length 93.6	Height 13.4
Max. electrical data		I _{max.} [A] 24	U _{max.} [V] 450	max. Ø [mm ²] 0.5 - 2.5 AWG 20 - 14
Rated data		IEC	UL/CUL	CSA
Rated voltage	[V]	450	300	-
Nominal current / cross section	[A] / [mm ²]	24 / 2.5	20 / -	-
Rated cross section	[mm ²]	2.5	-	-
Cross section range	AWG	20 - 14	22-12	-
Connection capacity		solid	stranded	Ferrule Without / with plastic sleeve
1 conductor	[mm ²]	0.5 - 2.5	0.5 - 2.5	0.5 - 1.5
Two conductors (of the same type)	[mm ²]	0.5 - 0.75	0.5 - 0.75	-
Two stranded conductors with a TWIN ferrule	[mm ²]			0.5
General data				
Stripping length	[mm]	5		
Screw thread		M2,6		
Tightening torque	[Nm]	0.4 - 0.5		
Insulating material		PA		
Inflammability class according to UL 94		V2		
Ordering data				
Description	Color	Type	Order No.	Pcs. / Pkt.
Europe connector, 12-pos., with wire protection	transparent	EC 2,5 P TR	3240167	10

4 (4) mm², 32 A, 12-pos.6 (6) mm², 41 A, 12-pos.16 (16) mm², 76 A, 12-pos.

cULus

cULus

cULus

Technical data			Technical data			Technical data					
Width	Length	Height	Width	Length	Height	Width	Length	Height			
18.6	117	15	22.2	132.7	17.3	25.2	173.9	20.8			
I _{max.} [A]	U _{max.} [V]	max. Ø [mm ²]	I _{max.} [A]	U _{max.} [V]	max. Ø [mm ²]	I _{max.} [A]	U _{max.} [V]	max. Ø [mm ²]			
32	450	0.75 - 4	41	450	1 - 6	16 - 10	450	6 - 16	AWG		
IEC	UL/CUL	CSA	IEC/EN 60079-7	IEC	UL/CUL	CSA	IEC/EN 60079-7	IEC	UL/CUL	CSA	IEC/EN 60079-7
450	300	-	450	300	-	450	300	-			
32 / 4	30 / -	-	41 / 6	50 / -	-	76 / 16	55 / -	-			
4	-	-	6	-	-	16	-	-			
18 - 12	20-10	-	16 - 10	14-8	-	10 - 6	10-6	-			
solid	stranded	Ferrule	solid	stranded	Ferrule	solid	stranded	Ferrule			
Without / with plastic sleeve			Without / with plastic sleeve			Without / with plastic sleeve					
0.75 - 4	0.75 - 4	0.5 - 2.5	1 - 6	1 - 6	0.75 - 4	6 - 16	6 - 16	1.5 - 10			
0.75 - 1.5	0.75 - 1	0.5 - 1	0.75 - 2.5	0.75 - 1.5	0.75 - 1.5	1.5 - 4	2.5 - 4	1.5 - 2.5			
		0.5 - 1			0.5 - 1			0.75 - 2.5			
6			7			8					
M3			M3,5			M4					
0.5 - 0.6			0.8 - 1			1.2 - 1.5					
PA			PA			PA					
V2			V2			V2					
Ordering data			Ordering data			Ordering data					
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.			
EC 4 P TR	3240171	10	EC 6 P TR	3240175	10	EC 16 P TR	3240182	10			

Installation and mounting material - CABINET add-on

Connection terminal blocks and sockets

Europe connectors

- These Europe connectors are suitable for solid and stranded conductors with a max. cross section of 25 mm²
- The prismatic clamping part facilitates conductor entry and secure contact can be established even in the case of conductors without ferrules
- The polypropylene insulating housing allows individual positions to be disconnected simply by twisting and without the need for tools
- The high-quality metal parts, which feature corrosion-resistant surfaces, are fixed securely in the housing



4 (4) mm², 32 A, 12-pos.



6 (6) mm², 41 A, 12-pos.

		Technical data			Technical data				
Dimensions	[mm]	Width	Length	Height	Width	Length	Height		
Max. electrical data		16.6 I _{max.} [A] 32	94.9 U _{max.} [V] 450	13 max. Ø [mm ²] 0.5 - 4	AWG 20 - 12	18.9 I _{max.} [A] 41	116.5 U _{max.} [V] 450	14.9 max. Ø [mm ²] 0.75 - 6	AWG 18 - 10
Rated data		IEC	UL/CUL	CSA	IEC/ EN 60079-7	IEC	UL/CUL	CSA	IEC/ EN 60079-7
Rated voltage	[V]	450	-	-	-	450	-	-	-
Nominal current / cross section	[A] / [mm ²]	32 / 4	- / -	-	-	41 / 6	- / -	-	-
Rated cross section	[mm ²]	4	-	-	-	6	-	-	-
Cross section range	AWG	20 - 12	-	-	-	18 - 10	-	-	-
Connection capacity		solid	stranded	Ferrule		Ferrule			
1 conductor	[mm ²]	0.5 - 4	0.5 - 4	Without / with plastic sleeve		0.75 - 6	0.75 - 6	0.75 - 4	0.75 - 2.5
Two conductors (of the same type)	[mm ²]	0.5 - 1	- 1	-		0.75 - 1.5	0.75 - 1.5	0.5 - 1	-
Two stranded conductors with a TWIN ferrule	[mm ²]			0.5					0.5 - 1
General data		5	M2,6			6	M3		
Stripping length	[mm]								
Screw thread									
Tightening torque	[Nm]	0.4 - 0.5	PP			0.5 - 0.6	PP		
Insulating material									
Ordering data								Ordering data	
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.		
Europe connector, 12-pos.	white black	EC 4 EC 4 BK	3240168 3240169	10	EC 6 EC 6 BK	3240172 3240173	10		

10 (10) mm², 57 A, 12-pos.16 (16) mm², 76 A, 12-pos.25 (25) mm², 101 A, 12-pos.

Technical data			Technical data			Technical data		
Width	Length	Height	Width	Length	Height	Width	Length	Height
17.3	133.8	23.4	20.7	174.5	25	30	187.3	28
I _{max.} [A]	U _{max.} [V]	max. Ø [mm ²]	I _{max.} [A]	U _{max.} [V]	max. Ø [mm ²]	I _{max.} [A]	U _{max.} [V]	max. Ø [mm ²]
57	450	1 - 10	76	450	1.5 - 16	101	750	10 - 25
IEC	UL/CUL	CSA	IEC/EN 60079-7	IEC	UL/CUL	CSA	IEC/EN 60079-7	IEC
450	-	-	450	-	-	750	-	-
57 / 10	- / -	-	76 / 16	- / -	-	101 / 25	- / -	-
10	-	-	16	-	-	25	-	-
16 - 8	-	-	14 - 6	-	-	8 - 4	-	-
solid	stranded	Ferrule	solid	stranded	Ferrule	solid	stranded	Ferrule
		Without / with plastic sleeve			Without / with plastic sleeve			Without / with plastic sleeve
1 - 10	1 - 10	1.5 - 6	1.5 - 4	1.5 - 16	2.5 - 16	2.5 - 10	10 - 25	4 - 16
1 - 2.5	1.5 - 2.5	0.75 - 1.5	-	2.5 - 4	2.5 - 4	1.5 - 2.5	4 - 6	2.5 - 4
		0.5 - 1.5				1 - 4		
7			8			9		
M3,5			M4			M5		
0.8 - 1			1.2 - 1.5			2 - 3		
PP			PP			PP		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
EC 10	3240176	10	EC 16	3240179	10	EC 25	3240183	10
EC 10 BK	3240177	10	EC 16 BK	3240180	10	EC 25 BK	3240184	10

Connection terminal blocks and sockets

Junction box connectors



- Thanks to their push-in connection method, the three junction box connectors available from Phoenix Contact enable wiring to be installed under the tightest of conditions without the need for tools
- Solid single-strand conductors with a cross section range of 0.5 mm² to 2.5 mm² can be connected
- Solid multi-strand conductors (7 litz wires) with a cross section range of 1.5 mm² to 2.5 mm² can be safely connected
- Different cross sections can be wired together in a junction box connector
- The transparent housing makes it easier to carry out a visual inspection of the terminal points, thereby increasing the safety of the wiring
- Integrated test openings enable the use of test devices once wiring has been completed



2.5 (2.5) mm², 24 A, 3-pos.



Technical data				
Dimensions	[mm]	Width 17.2	Length 15.6	Height 8.9
Max. electrical data		I _{max.} [A] 24	U _{max.} [V] 450	max. Ø [mm ²] 0.5 - 2.5
Rated data		IEC	UL/CUL	CSA
Rated voltage	[V]	450	600	-
Nominal current / cross section	[A] / [mm ²]	24 / 2.5	20 / -	-
Rated cross section	[mm ²]	2.5	-	-
Cross section range	AWG	20 - 14	20-16	-
Connection capacity		solid	stranded	Ferrule Without / with plastic sleeve
1 conductor	[mm ²]	0.5 - 2.5	1.5 - 2.5	-
General data				
Stripping length	[mm]	8		
Insulating material		PC/PA		
Inflammability class according to UL 94		V2		
Ordering data				
Description	Color	Type	Order No.	Pcs. / Pkt.
Plug-in terminal block, 3-pos. 5-pos. 8-pos.	transparent transparent transparent	JBC 2,5/3	3240164	100

2.5 (2.5) mm², 24 A, 5-pos.2.5 (2.5) mm², 24 A, 8-pos.

Technical data			
Width	Length	Height	
26	15.6	8.9	
I _{max.} [A]	U _{max.} [V]	max. Ø [mm ²]	AWG
24	450	0.5 - 2.5	20 - 14
IEC	UL/CUL	CSA	IEC/ EN 60079-7
450	600	-	-
24 / 2.5	20 / -	-	-
2.5	-	-	-
20 - 14	20-16	-	-
solid	stranded	Ferrule Without / with plastic sleeve	
0.5 - 2.5	1.5 - 2.5	-	-
8			
PC/PA			
V2			

Technical data			
Width	Length	Height	
39.2	15.6	8.9	
I _{max.} [A]	U _{max.} [V]	max. Ø [mm ²]	AWG
24	450	0.5 - 2.5	20 - 14
IEC	UL/CUL	CSA	IEC/ EN 60079-7
450	600	-	-
24 / 2.5	20 / -	-	-
2.5	-	-	-
20 - 14	20-16	-	-
solid	stranded	Ferrule Without / with plastic sleeve	
0.5 - 2.5	1.5 - 2.5	-	-
8			
PC/PA			
V2			

Ordering data		
Type	Order No.	Pcs. / Pkt.
JBC 2,5/5	3240165	100

Ordering data		
Type	Order No.	Pcs. / Pkt.
JBC 2,5/8	3240166	50

Installation and mounting material - CABINET add-on

Connection terminal blocks and sockets

Sockets with 45 mm standard pitch



It is equally important in modern switch-gears as in simple distributions: the rail-mountable socket in standard format.

The socket is mounted in an exposed position to allow mounting tools, service devices, and other electrical equipment to be installed comfortably.

The mains connection terminal blocks (L1, N, and PE) are arranged on one side of the socket for easy connection. All SD sockets are supplied with equipment marker tags. Additional equipment marker tags are available for the EMG housings.

The 45 mm socket is available with or without a miniature fuse. There is a 6.3 A fine fuse (5 x 20 mm) for protection.

System parts, in which items are still live even after the main switch has been turned off, must be marked in accordance with DIN VDE 0105-1 and IEC 60204-1/EN 60204-1/DIN VDE 0113-1 as well as the Accident Prevention Regulation VBG 4. In this case, a socket version in a yellow housing is available.

The sockets with a 45 mm standard pitch and with 90 mm double housings can be quickly snapped onto the 35 mm DIN rail in accordance with EN 60715.

For the sockets, you can choose between the following versions:

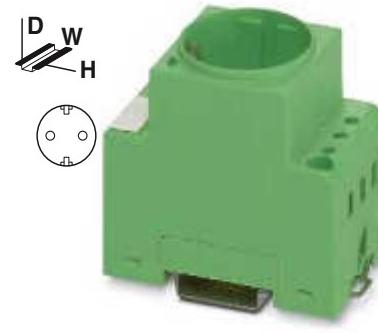
- Screw or spring-cage connection
- With or without light indicator
- Grounding connector, Belgian, French or USA version
- Housing: green, yellow or light gray

With the VS-SI-SD... socket inserts, the sockets can be integrated into the IP65 VS-SI-EB-EMV-1 mounting frame, for example. For further information, visit www.phoenixcontact.net/products.

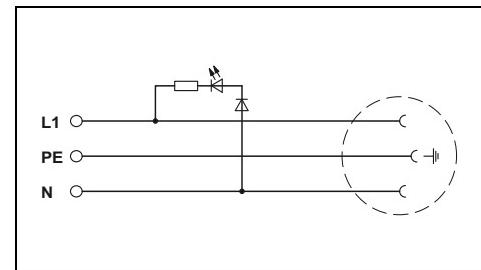
Notes:

Type of housing:
SD... polyamide non-reinforced PA
EMG... SD: polycarbonate fiber reinforced PCF
EM-DUO... PVC 94 V0
Socket insert Aminoplast type 131

For approvals and dimensional drawing, visit www.phoenixcontact.net/products.



Germany



Technical data

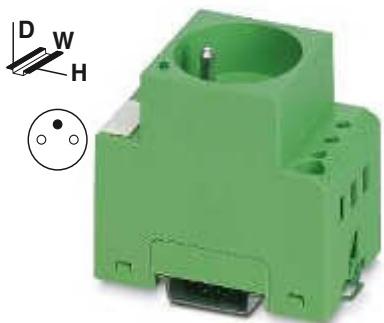
250 V AC	EMG 90...
16 A AC	
SD-D... and EMG 45...	EMG 90...
45 mm / 75 mm / 65.2 mm	90 mm / 75 mm / 70.5 mm
0.2 - 4 mm ² / 0.2 - 2.5 mm ² / 24 - 12	
IP20	
CuZn37	
-20°C ... 60°C	
IEC 83 , DIN 49440-1	

Ordering data

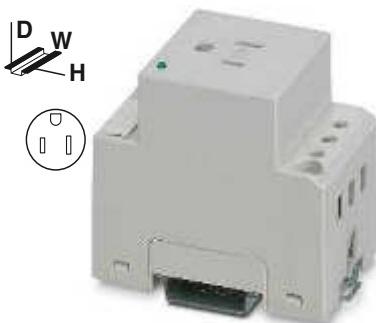
Description	Type	Order No.	Pcs. / Pkt.
Socket for the DIN rail			
Screw connection, light indicator, green	SD-D/SC/LA	2964898	5
Screw connection, light indicator, gray	SD-D/SC/LA/GY	2963491	5
Screw connection, light indicator, yellow	SD-D/SC/LA/YE	2963404	5
Screw connection, green	SD-D/SC	2963310	5
Screw connection, gray	SD-D/SC/GY	2963815	5
Screw connection, yellow	SD-D/SC/YE	2963459	5
Spring-cage connection, light indicator, green	SD-D/SP/LA	2963307	5
Spring-cage connection, light indicator, gray	SD-D/SP/LA/GY	2963488	5
Spring-cage connection, light indicator, yellow	SD-D/SP/LA/YE	2963475	5
Spring-cage connection, green	SD-D/SP	2963323	5
Spring-cage connection, gray	SD-D/SP/GY	2963501	5
Spring-cage connection, yellow	SD-D/SP/YE	2963462	5
Socket for the DIN rail with device fuse (5 x 20 mm, 6.3 A)			
Screw connection, light indicator, green	EMG 45-SD-D/LA/SI	2943738	5
Screw connection, light indicator, yellow	EMG 45-SD-D/LA/SI YE	2940825	5
Double socket for the DIN rail			
Screw connection, light indicator, green	EMG 90-2SD-D/LA	2941523	2
Screw connection, gray			
Screw connection, residual current circuit breaker, gray			

Accessories

Marker tags, 5-section, unprinted, labeling with X-PEN, M-PEN, plotter or BKMT 20 x 8 label			
Lettering field size: 20 x 8 mm	white	SS-ZB WH	5031171
Lettering field size: 20 x 8 mm	yellow	SS-ZB YE	5031650
labeled according to customer specifications	white	SS-ZB WH CUS	0824470



France/Belgium



USA

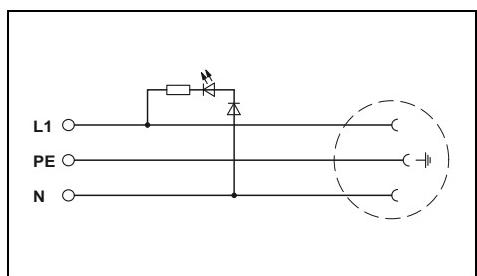


USA

P

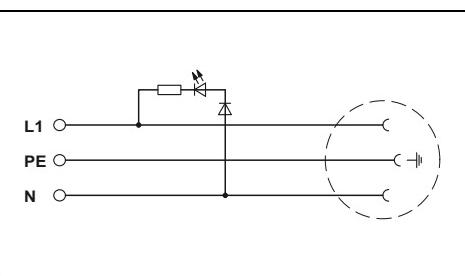
P C

P C



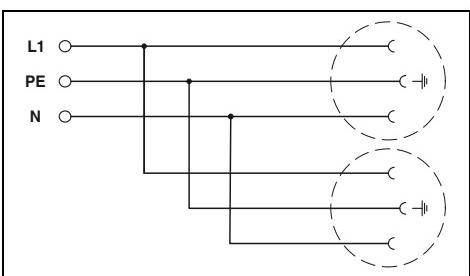
Technical data

250 V AC
10 A DC
SD-F...
45 mm / 75 mm / 70.5 mm
0.2 - 4 mm² / 0.2 - 2.5 mm² / 24 - 12
IP20
CuZn37
-20°C ... 60°C
IEC 83 , DIN 49440-1



Technical data

125 V AC
15 A AC
SD-US...
45 mm / 75 mm / 70.5 mm
0.2 - 4 mm² / 0.2 - 2.5 mm² / 30 - 12
IP20
CuZn37
-20°C ... 60°C
IEC 83 , DIN 49440-1



Technical data

120 V AC
15 A
EM-DUO...
83 mm / 134 mm / 49 mm
0.2 - 6 mm² / 0.2 - 4 mm² / 24 - 10
IP20
CuZn37
-40°C ... 70°C
UL 508

Ordering data			
Type	Order No.	Pcs. / Pkt.	
SD-F/SC/LA	2963336	5	
SD-F/SC/LA/GY	2963844	5	
SD-F/SC/LA/YE	2963909	5	
SD-F/SC	2963352	5	
SD-F/SC/GY	2963828	5	
SD-F/SP/LA	2963349	5	
SD-F/SP/LA/GY	2963857	5	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
SD-US/SC/LA/GY	2963860	10	

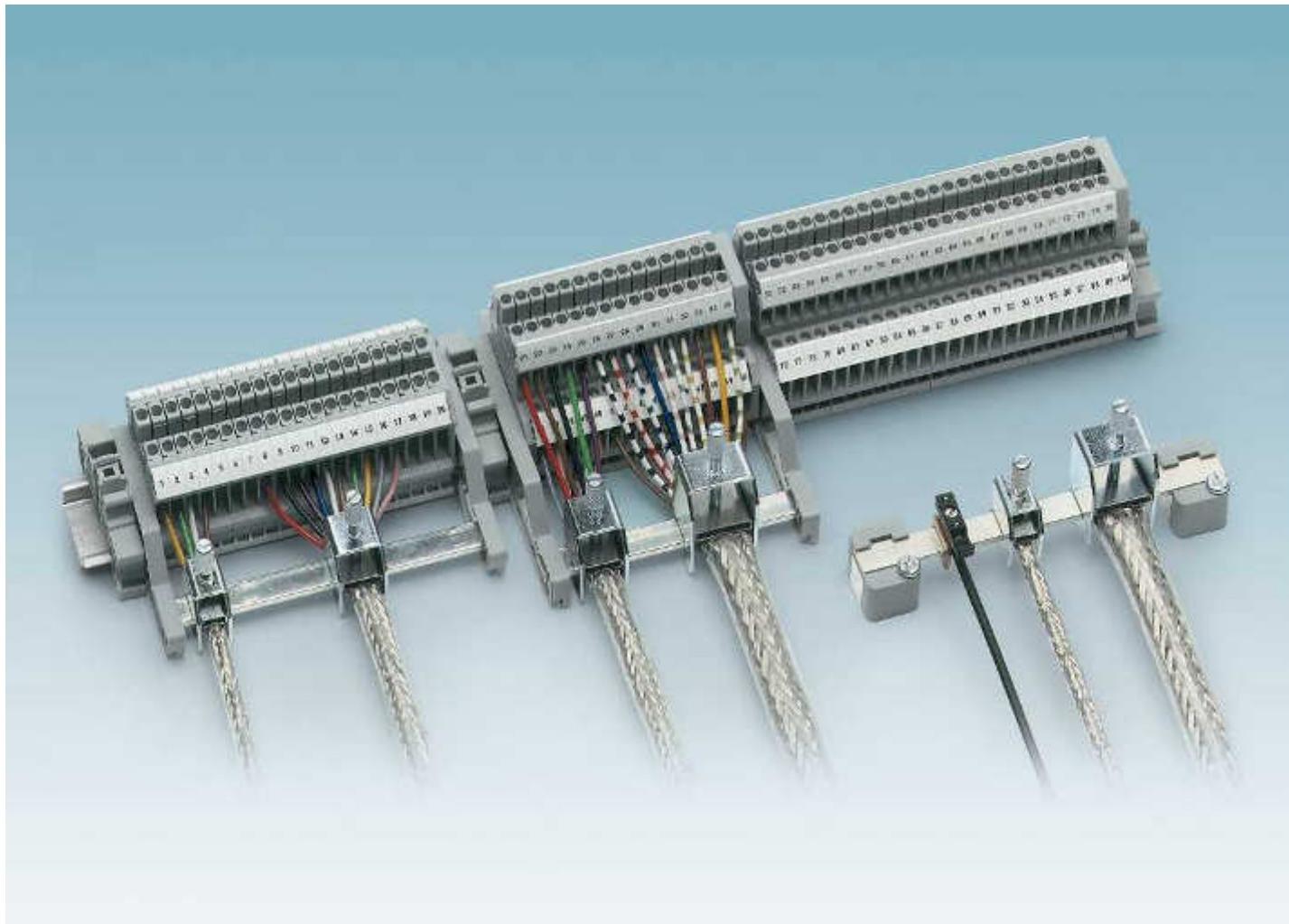
Ordering data			
Type	Order No.	Pcs. / Pkt.	
EM-DUO 120/15	5600461	1	
EM-DUO/120/15/GFI	5600462	1	

Accessories			
SS-ZB WH	5031171	50	
SS-ZB YE	5031650	50	
SS-ZB WH CUS	0824470	1	

Accessories			
SS-ZB WH	5031171	50	
SS-ZB YE	5031650	50	
SS-ZB WH CUS	0824470	1	

Accessories			

Shielding



Large shield support

Shield connection terminal blocks are suitable for all standard cable shields and allow for EMC-compliant wiring through large surfaces and low-impedance and low-resistance contact transitions.



Easy to install

The shield connection terminal blocks offer optimum wiring convenience. Only once the terminal strip has been wired is the shield connection terminal block mounted by simply pivoting it into place.

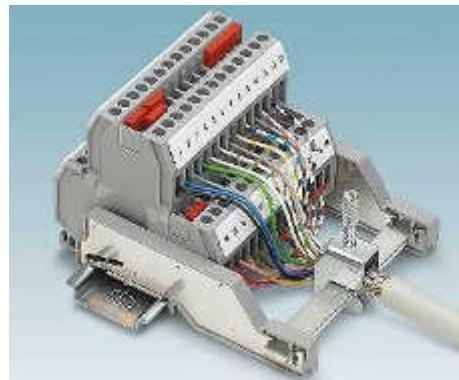


Safe contact

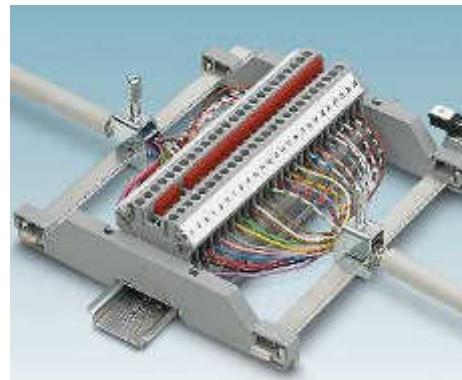
Phoenix Contact support frames for shield connection terminal blocks are easily snapped onto the mounting rail. The integrated contact metals allow the ground potential to be automatically connected to the busbar.



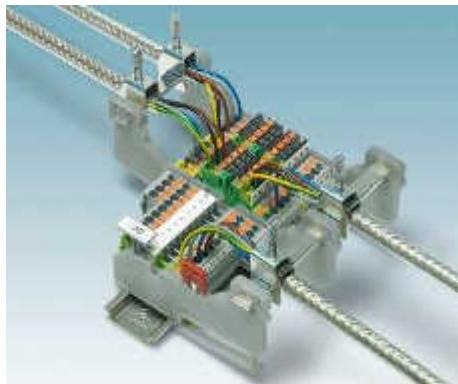
Conductors with a diameter of 2 to 35 mm can make optimum contact with the shield connection clamps of the SK series without any special tools and are available for various types of mounting.



The single-sided AB-SK shield support frames are particularly well suited to space-saving conductor connection for terminal blocks and devices with cable entry at the side.



The double support frame offers simple handling with optimum EMC properties for the two-sided support of a shielded cable. Either an insulated or grounded structure can be used.



The easiest way to wire terminal blocks with a front connection is using AB-SK TOP support frames located above the blocks. The NLS rail can be mounted in the support frames vertically, horizontally or at a 45° angle for optimum conductor placing.



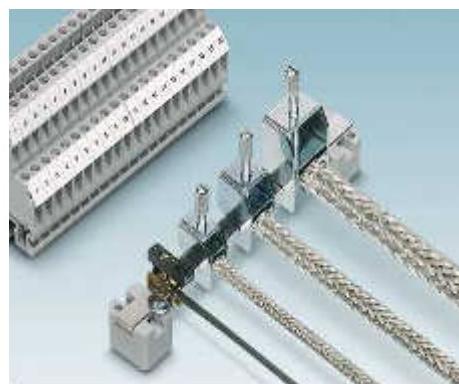
The 3 x 10 mm PEN conductor busbar can also be quickly and safely snapped into the contact zone. The ground potential is thereby automatically connected to the busbar.



Having the same design as the SK series, shield supports with SK ...-D terminal blocks can also be realized directly on the mounting plate or back wall. The terminal blocks are simply pivoted into the two slots above the conductor.



Support frames with a lateral metal insert for the PEN conductor busbar or T-shaped AB-SK/E compact support frames are used to freely position the shield connection terminal blocks on the mounting plate.



Alternatively, the shielding can also be connected to ground potential insulated from protective earth ground. An appropriate contact to the PEN conductor busbar is established using a pick-off terminal block.



The easiest way to wire terminal blocks with a front connection is using support frames located above the blocks. This method also allows multi-level terminal blocks with short wiring paths to be connected in compliance with EMC requirements.

Shielding

SK ... shield connection clamps

The screw-type shield connection clamps of the SK series are characterized by:

- Simple handling
- Knurled screw
- Spring-loaded, large pressure piece
- Suitability for direct and busbar mounting

Notes:

For dimensional drawings, see page 531.



**Shield connection clamps
for busbar mounting**

Shield connection clamps for direct mounting

Description	Color
Shield connection clamp , for applying the shield to busbars, contact resistance < 1 mΩ	
Ø 2 - 5 mm, tightening torque 0.4 Nm	silver
Ø 3 - 8 mm, tightening torque 0.6 Nm	silver
Ø 3 - 14 mm, tightening torque 0.8 Nm	silver
Ø 5 - 20 mm, tightening torque 0.8 Nm	silver
Ø 5 - 28 mm, tightening torque 1 Nm	silver
Ø 20 - 35 mm, tightening torque 1.5 - 1.8 Nm	silver
Shield connection clamp , for applying the shield directly to the conductive mounting plates, plate thickness 1 - 2 mm	
Ø 2 - 5 mm, tightening torque 0.4 Nm	silver
Ø 3 - 8 mm, tightening torque 0.6 Nm	silver
Ø 3 - 14 mm, tightening torque 0.8 Nm	silver
Ø 5 - 20 mm, tightening torque 0.8 Nm	silver
Ø 5 - 28 mm, tightening torque 1 Nm	silver
Ø 20 - 35 mm, tightening torque 1.5 - 1.8 Nm	silver

Ordering data		Ordering data			
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
SK 5	3025338	10	SK 5-D	3025406	10
SK 8	3025163	10	SK 8-D	3026861	10
SK 14	3025176	10	SK 14-D	3026874	10
SK 20	3025189	10	SK 20-D	3026887	10
SK 28	3026997	10	SK 28-D	3027006	10
SK 35	3026463	10	SK 35-D	3026890	10
Accessories		Accessories			
NLS-CU 3/10 SN 1000MM	0402174	10			

PEN conductor busbar, 3 x 10 mm, 1 m long, material: copper, tin-plated, nominal current: 140 A

SKS ... shield connection clamps

- The SKS ... spring shield connection clamps are available for cable and conductor diameters of between 3 and 20 mm
- Three different forms of mounting are possible: on NS 35 DIN rails, on busbars or directly on conductive mounting plates

Notes:

For dimensional drawings, see page 531.



Shield connection clamps for busbar and direct mounting

Shield connection clamps for DIN rail mounting

Description	Color
Shield connection clamp , for applying the shield to busbars, contact resistance < 1 mΩ	
Ø 3 - 8 mm	silver
Ø 3 - 14 mm	silver
Ø 5 - 20 mm	silver
Shield connection clamp , for directly applying the shield to conductive mounting plates, metal thickness 1-2 mm, with fastening screw M4	
Ø 3 - 8 mm	silver
Ø 3 - 14 mm	silver
Ø 5 - 20 mm	silver
Shield connection clamp , with screwfix, mounting on DIN rail NS 35..., for shield support on busbars	
Ø 3 - 8 mm	silver
Ø 3 - 14 mm	silver
Ø 5 - 20 mm	silver
Shield connection clamp , with snap-on foot, mounting on DIN rail NS 35..., for shield support on busbars	
Ø 3 - 8 mm	silver
Ø 3 - 14 mm	silver
Ø 5 - 20 mm	silver

Ordering data		Ordering data			
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
SKS 8	3240210	10			
SKS 14	3240211	10			
SKS 20	3240212	10			
SKS 8-D	3240213	10			
SKS 14-D	3240214	10			
SKS 20-D	3240215	10			
SKS 8-NS35	3240216	10			
SKS 14-NS35	3240217	10			
SKS 20-NS35	3240218	10			
SKS 8-SNS35	3062786	10			
SKS 14-SNS35	3062799	10			
SKS 20-SNS35	3062809	10			
Accessories		Accessories		Accessories	
NLS-CU 3/10 SN 1000MM	0402174	10	NLS-CU 3/10 SN 1000MM	0402174	10

Shielding

Support frame for shield support on one side



**Support frame, tall,
for SK & SKS shield connection clamps**

AB-SK TOP

- For convenient shield connection, especially for single- and multi-level terminal blocks and devices with a front connection
- The 3 x 10 mm rail can be mounted in the support frames vertically, horizontally, and at a 45° angle for optimum conductor placing
- Compact design in a 5.2 mm pitch
- Can be labeled with zack marker strip and KLM ... terminal strip marker; see page 500
- Parking facility for FBS plug-in bridges
- End holder function
- For mounting SK and SKS shield connection clamps

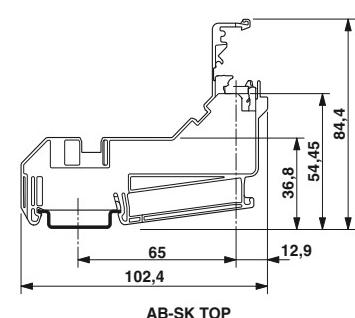
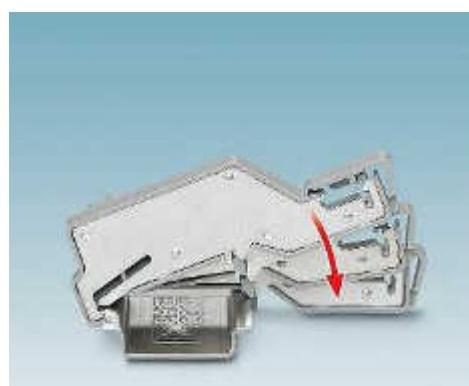
AB-SK

- The single-sided AB-SK shield support frames are particularly well suited to space-saving conductor connection for terminal blocks and devices with cable entry at the side
- Available in two lengths
- For mounting SK shield connection clamps

AB-SKS

- For convenient shield connection, especially for single- and multi-level terminal blocks and devices with a front connection
- Insulated to DIN rail
- End holder function
- For mounting SK and SKS shield connection clamps

Technical data				
Dimensions	[mm]	Width 5.2	Length 102.4	Height
General data				
Material	PA			
Ordering data				
Description	Color	Type	Order No.	Pcs. / Pkt.
Support frame with end holder function, for mounting on NS 35..., direct contact with NS 35..., for accommodating 3 x 10 mm busbars, SK and SKS shield connection clamps	gray	AB-SK TOP	3062090	10
Support frame with end holder function, for mounting on NS 35..., insulated to NS 35..., for accommodating 3 x 10 mm busbars, for SK and SKS shield connection clamps	gray	AB-SK TOP INSULATED	3062074	10
Support frame, for mounting on NS 35..., direct contact with NS 35..., for accommodating 3 x 10 mm busbars, SK shield connection clamps	gray			
Support frame, 65 mm, for mounting on NS 35..., direct contact with NS 35..., for accommodating 3 x 10 mm busbars, SK shield connection clamps	gray			
Support frame with end holder function, for mounting on NS 35..., insulated to NS 35..., for accommodating 3 x 10 mm busbars, for SK and SKS shield connection clamps	gray			
Accessories				
PEN conductor busbar, 3 x 10 mm, 1 m long, material: copper, tin-plated, nominal current: 140 A	silver	NLS-CU 3/10 SN 1000MM	0402174	10
Lateral groove labeling		UC-TM 5, UCT-TM 5 or ZB 5 UC-TMF 5, UCT-TMF 5 or ZBF 5		





Support frame,
for SK shield connection clamps

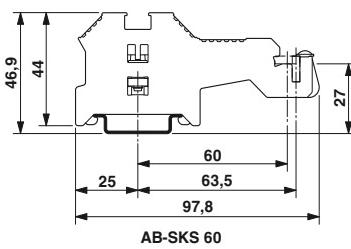
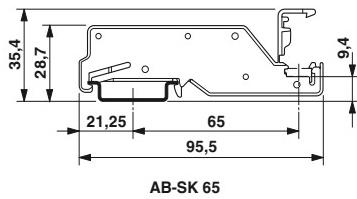
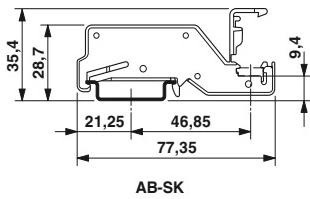


Support frame, 65 mm long,
for SK shield connection clamps



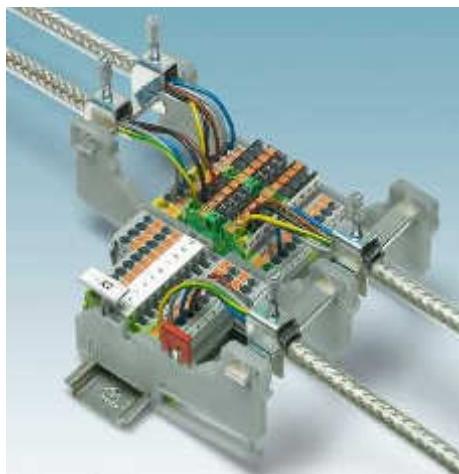
Insulated support frame, tall,
for SK and SKS shield connection clamps

Technical data			Technical data			Technical data		
Width	Length	Height	Width	Length	Height	Width	Length	Height
6.2	77.35		6.2	95.5		9.5	97.8	
PA			PA		<th>PA</th> <td></td> <td></td>	PA		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
AB-SK	3025341	10	AB-SK 65	3026489	10	AB-SKS 60	3240223	10
Accessories			Accessories			Accessories		
NLS-CU 3/10 SN 1000MM	0402174	10	NLS-CU 3/10 SN 1000MM	0402174	10	NLS-CU 3/10 SN 1000MM	0402174	10



Shielding

Double support frame for shield support on both sides



AB-SK-D TOP

- For convenient shield connection, especially for single- and multi-level terminal blocks and devices with a front connection
- The 3 x 10 mm rail can be mounted in the support frames vertically, horizontally, and at a 45° angle for optimum conductor placing
- Compact design in a 5.2 mm pitch
- Can be labeled with zack marker strip and KLM ... terminal strip marker; see page 500
- Parking facility for bridges and plugs
- For mounting SK and SKS shield connection clamps

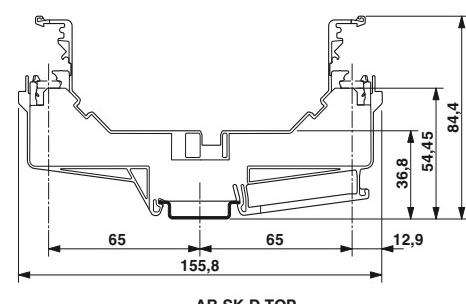
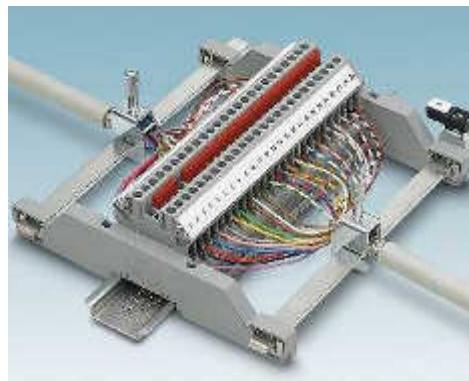
AB-SK 65-D

- The double shield support frames are particularly well suited to space-saving conductor connections for terminal blocks and devices with cable entry at the side
- Available in two lengths
- For mounting SK shield connection clamps



Double support frame, tall, for SK and SKS shield connection clamps

Technical data			
Dimensions	[mm]	Width	Length
General data		5.2	155.8
Material			
Description	Color	Type	Order No.
Double support frame with end bracket function, for mounting on NS 35..., direct contact with NS 35..., for accommodating 3 x 10 mm busbars, SK and SKS shield connection clamps	gray	AB-SK-D TOP	3062100
Double support frame with end bracket function, for mounting on NS 35..., insulated to NS 35..., for accommodating 3 x 10 mm busbars, for SK and SKS shield connection clamps	gray		10
Double support frame, for mounting on NS 35..., direct contact with NS 35..., for accommodating 3 x 10 mm busbars, SK shield connection clamps	gray		
Double support frame, 65 mm, for mounting on NS 35..., insulated to NS 35... for accommodating 3 x 10 mm busbars, SK shield connection clamps	gray		
PEN conductor busbar, 3 x 10 mm, 1 m long, material: copper, tin-plated, nominal current: 140 A	silver	NLS-CU 3/10 SN 1000MM	0402174
Lateral groove labeling		UC-TM 5, UCT-TM 5 or ZB 5 UC-TMF 5, UCT-TMF 5 or ZBF 5	10





Insulated, double support frame, tall, for SK and SKS shield connection clamps



Double support frame, tall, for SK shield connection clamps



Insulated, double support frame, tall, for SK shield connection clamps

Technical data

Width	Length	Height
5.2	155.8	

PA

Ordering data

Type	Order No.	Pcs. / Pkt.
AB-SK-D TOP INSULATED	3062087	10

Technical data

Width	Length	Height
8.2	150	

PA

Ordering data

Type	Order No.	Pcs. / Pkt.
AB-SK 65-D	3026900	10

Technical data

Width	Length	Height
8.2	150	

PA

Ordering data

Type	Order No.	Pcs. / Pkt.
AB-SK 65-D INSULATED	3040889	10

Accessories

Accessories

Accessories

NLS-CU 3/10 SN 1000MM	0402174	10
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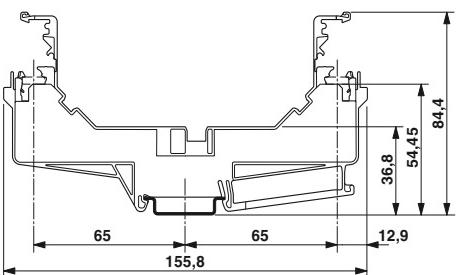
NLS-CU 3/10 SN 1000MM	0402174	10
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NLS-CU 3/10 SN 1000MM	0402174	10
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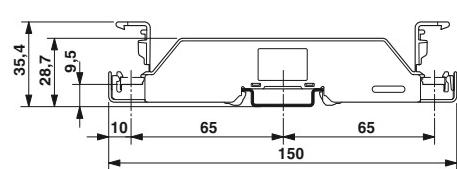
UC-TM 5, UCT-TM 5 or ZB 5
UC-TMF 5, UCT-TMF 5 or ZBF 5

UC-TM 5, UCT-TM 5 or ZB 5
UC-TMF 5, UCT-TMF 5 or ZBF 5

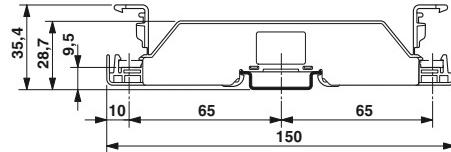
UC-TM 5, UCT-TM 5 or ZB 5
UC-TMF 5, UCT-TMF 5 or ZBF 5



AB-SK-D TOP INSULATED



AB-SK 65-D



AB-SK 65-D INSULATED

Installation and mounting material - CABINET add-on

Shielding

Support frame for direct mounting

The support frames are available in the following versions:

- AB/SS for insulated installation on the mounting plate and
- AB/SS-M for uninsulated installation on the mounting plate
- For mounting SK and SKS shield connection clamps

Notes:

For dimensional drawings, see www.phoenixcontact.net/products.

Y



Support frame for
SK shield connection clamps

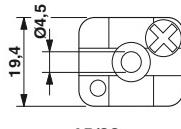
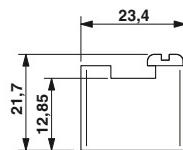
Y



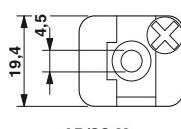
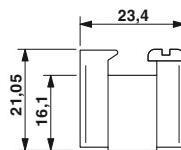
Support frame for
SK & SKS shield connection clamps

General data	
Material	
Description	Color
Support , insulated, with retaining screw, for 3 x 10 mm or 6 x 6 mm busbars	gray
Support , with contact to the mounting plate, with retaining screw, for 3 x 10 mm busbars	gray
Support , insulated, for 3 x 10 mm or 6 x 6 mm busbars	gray
PEN conductor busbar, 3 x 10 mm, 1 m long, material: copper, tin-plated, nominal current: 140 A	silver

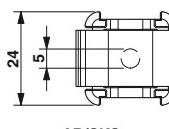
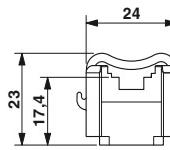
Technical data				Technical data			
PA		PA		PA		PA	
Ordering data				Ordering data			
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.
AB/SS	0404428	10					
AB/SS-M	3025888	10					
			AB/SKS	3240224	10		
Accessories				Accessories			
NLS-CU 3/10 SN 1000MM	0402174	10	NLS-CU 3/10 SN 1000MM	0402174	10		



AB/SS



AB/SS-M



AB/SKS

Multi-level support for direct mounting

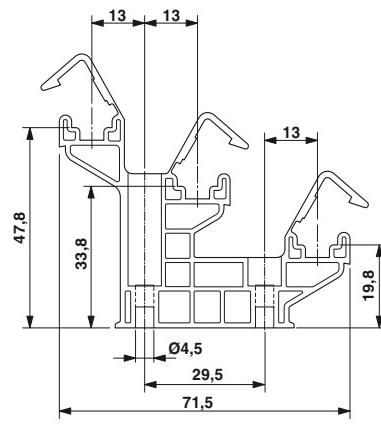
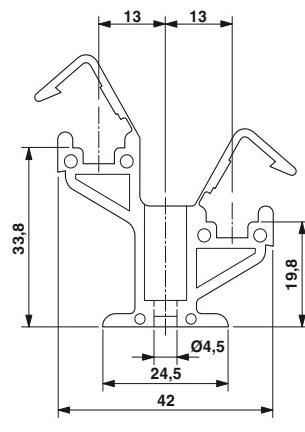
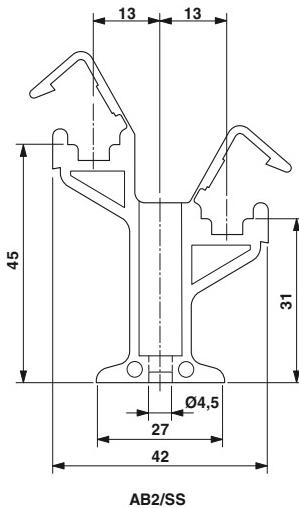


- Double and triple support frames for different busbars
- Type allows for an extremely compact design using large amounts of wiring, e.g., for multi-level front connection terminal blocks
- Support frames are insulated
- Direct mounting



Support, multi-level, insulated

Technical data				
Ordering data				
General data		Type	Order No.	Pcs. / Pkt.
Material	PA			
Description	Color	Type	Order No.	Pcs. / Pkt.
Double support , insulating material, optionally for use with 3 x 10 mm or 6 x 6 mm neutral busbar, height: 48 mm	gray	AB2/SS	0404431	10
Height 48 mm	gray	ABN 2/SS	0404460	10
Height 36.8 mm	gray			
Triple support frame , made from insulating material	gray	AB3/SS	0800086	10
Accessories				
PEN conductor busbar , 3 x 10 mm, 1 m long, material: copper, tin-plated, nominal current: 140 A	silver	NLS-CU 3/10 SN 1000MM	0402174	10
PEN conductor busbar, in accordance with DIN VDE 0611-4, 6 x 6 mm, 1 m long, material: copper, tin-plated, nominal current: 140 A	silver	NLS-CU 6/ 6 SN 1000MM	0402161	10



Shielding

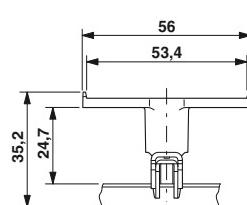
Support frame for direct and DIN rail mounting



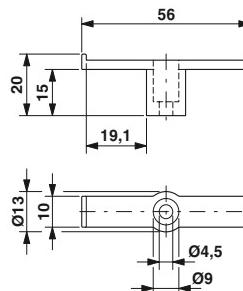
- T-shaped support frames for space-saving direct mounting and free positioning on the mounting plate
- Suitable for SK 5 to SK 14, SKS 8 and SKS 14 shield connection clamps
- Version for NS 35 DIN rail mounting



General data		Technical data		
Material	Aluminum	Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
Support , for direct mounting with contacting on the mounting surface	silver	AB-SK/E	3026476	10
Support frame , for mounting on NS 35 DIN rails	silver	AB-SK/E-NS 35	3213111	10



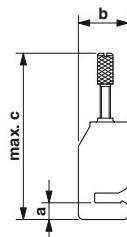
AB-SK/E-NS 35



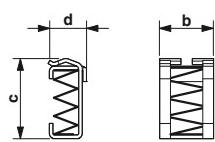
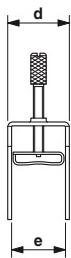
AB-SK/E

SK shield connection clamps

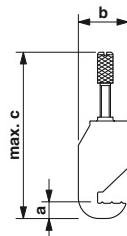
	a	b	c	d	e
SK 5	6.5	19.5	46.8	9	6
SK 8	6.5	19.5	48.7	12	9
SK 14	6.5	19.5	59.3	17	14
SK 20	6.5	19.5	75	24	21
SK 28	6.5	20	93	32	28
SK 35	6.5	20	106.5	40	36
SK 5-D	6.5	19.5	46.8	9	6
SK 8-D	6.5	19.5	47.2	12	9
SK 14-D	6.5	19.5	57.8	17	14
SK 20-D	6.5	19.5	73.5	24	21
SK 28-D	6.5	20	91.5	32	28
SK 35-D	6.5	20	105.0	41	36



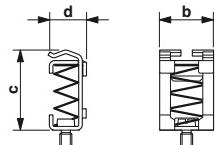
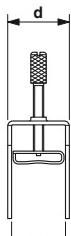
SK ...



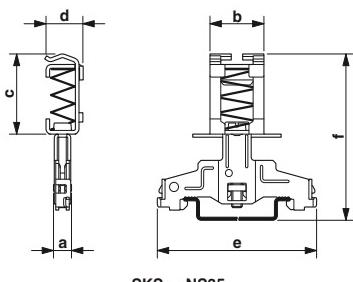
SKS ...



SK ...-D



SKS ...-D

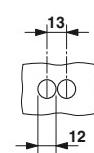
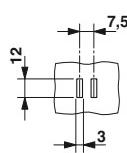


SKS ...-NS35

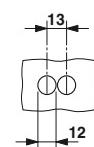
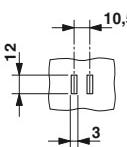
Drilling and punching patterns for SK...-D

Punching template

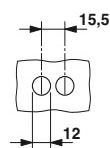
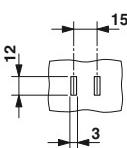
Drilling plan



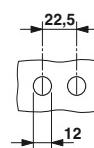
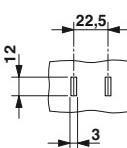
SK 5-D



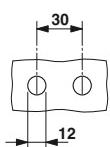
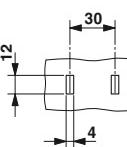
SK 8-D



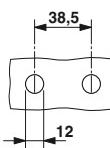
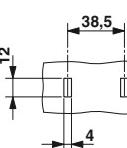
SK 14-D



SK 20-D



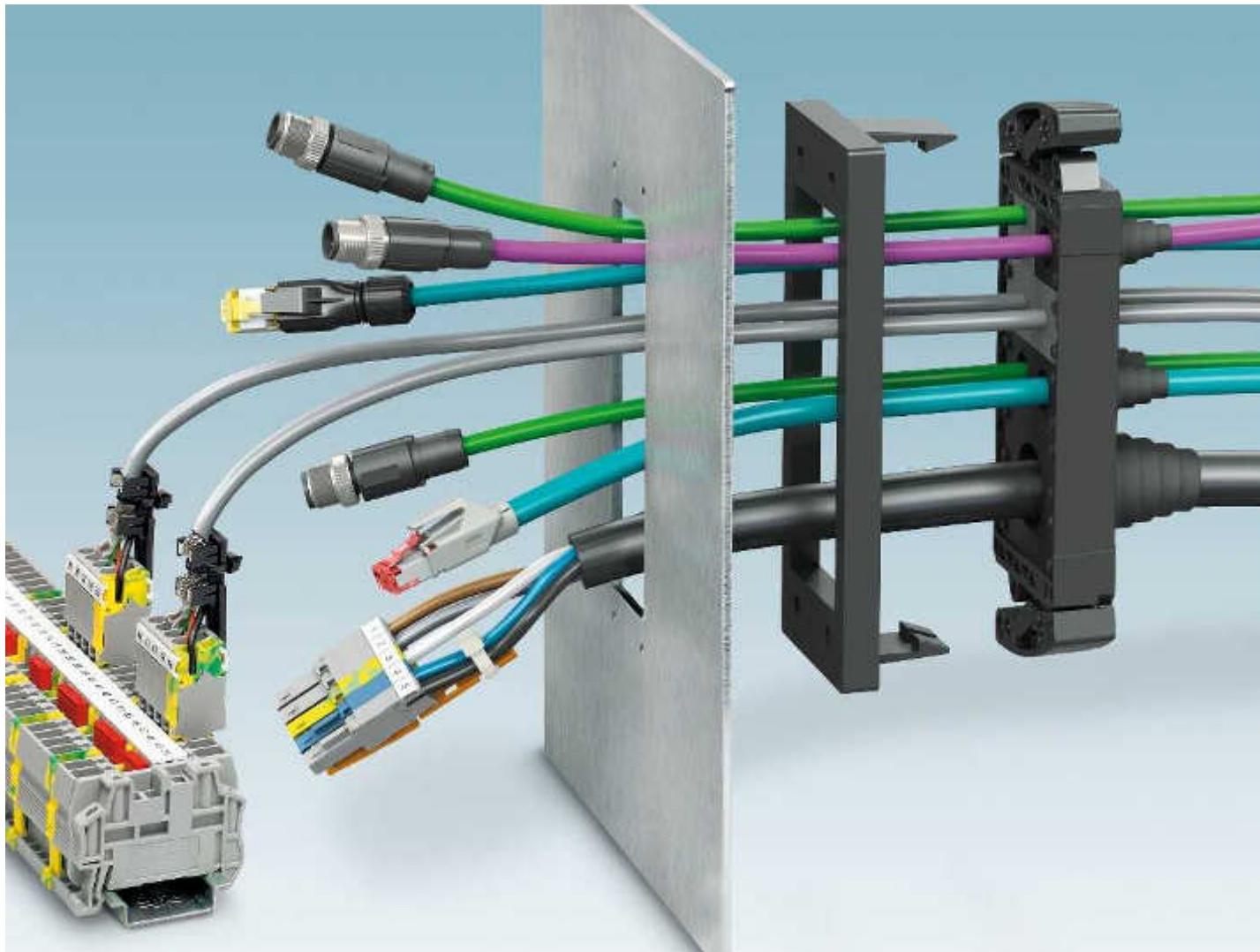
SK 28-D



SK 35-D

Installation and mounting material - CABINET add-on

CES cable entry system



Saves space and costs

The cable entry system (CES) allows a variety of cables and protective hoses to be inserted into control cabinets, distributor boxes or devices using a water- and dust-proof method where space is at a premium.
– For protective hoses, see page 548

Sealing frames with metal reinforcement

Because the sealing frames can be split, it is possible to guide pre-assembled plug-in connectors through panel cutouts and subsequently seal with a high degree of protection and reduce the strain according to DIN EN 50262. Thanks to the integrated metal reinforcement, only two locking elements are required on the front.

Variable mounting options

The CES sealing frames can be directly mounted on standard panel cutouts (e.g., Rittal) for industrial plug-in connectors. Snap-up frames are available to simplify on-site installation.



Optional latch

Sealing frames with screw locking and locking latches are available. The locking latch does not require any tools, which makes it really quick and easy to use, even in places that are difficult to access.

Also for industrial plug-in connectors

Due to a widening of the standard Rittal cutouts from 35 to 51 mm, even wide rectangular industrial plug-in connectors for double locking latches and plug assembly frames can be swiveled through mounting panels and sealed and provided with strain relief using the CES.



Plastic vs. rubber sleeves

The gray thermoplastic sleeves exhibit a low level of flammability according to UL 94 V0 and are highly resistant to acids and lyes. The black rubber sleeves (NBR) perform significantly better in the long term, particularly in the event of temperature fluctuations. They are also resistant to oil, fuels, and grease. All cable sleeves are halogen-free.

Faster installation and a reliable seal

It only takes two coned sleeves to seal any cable diameter ranging from 2 to 24 mm. The coned sleeves are cut to the appropriate length and pushed on before the cables are assembled. There is no longer any need to select corresponding slotted rubber seals on site, which can be a time-consuming process, and the reliability of the seal has been improved for ratings up to IP65.

Installation and mounting material - CABINET add-on

CES cable entry system

Sealing frames for cable sleeves



- Sealing frame with integrated metal reinforcement to protect against deformation
- Only two locking elements are required (screws or latch)
- Suitable for standard panel cutouts (e.g., Rittal)
- Snap-up frame for simplifying on-site installation
- Sealing frame with convenient locking latch for tool-free actuation
- Marking for cable sleeve location on the underside of the frame

Notes:

For dimensional drawings, see page 541.

If the panel cutout width is 51 mm, HC industrial plug-in connectors and CIF plug assembly frames can also be fed through the panel using the cable entry system (CES).



Sealing frame with locking latch

Technical data			
General data			
Material			
PA			
Degree of protection	IP54		
Torque			
Inflammability class according to UL 94	-		
Temperature range	V0		
	-40 ... 120	[°C]	
Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Sealing frame , including flat gasket, for accommodating cable sleeves, for standard cutout : B10 (cutout: 35 mm x 65 mm), for up to 6 cable sleeves B16 (cutout: 35 mm x 86 mm), for up to 8 cable sleeves B24 (cutout: 35 mm x 113 mm), for up to 10 cable sleeves	CES-B10-HFFS-PLBK CES-B16-HFFS-PLBK CES-B24-HFFS-PLBK	0801663 0801662 0801661	1 1 1
Snap-up frame , including integrated seal for mounting panel, for accommodating sealing frames, for standard cutouts : B10 (cutout: 35 mm x 65 mm) B16 (cutout: 35 mm x 86 mm) B24 (cutout: 35 mm x 113 mm)			
Locking plate , metal, locks an unused snap-up frame, transport protection, for standard cutouts : B10 B16 B24			
Accessories			
Replacement flat gasket , for sealing frame with standard cutout : B10 (cutout: 35 mm x 65 mm) B16 (cutout: 35 mm x 86 mm) B24 (cutout: 35 mm x 113 mm)	CES-B10-WRG-BK CES-B16-WRG-BK CES-B24-WRG-BK	0801725 0801726 0801727	10 10 10
M4 replacement screw , with 4 mm Allen screw head, for sealing frame with screw locking			
Bit screwdriver , with 1/4" quick-action chuck, suitable for bits according to DIN 3126-C 6.3 and E 6.3/ISO 1173, magnetic			
Screw bit , hexagonal, E6.3-1/4" drive, hardened, suitable for holder according to DIN 3126-F6.3/ISO 1173			
Size: hex 3 x 50 mm			



Sealing frame with screw locking



Snap-up frame



Locking plates

Technical data			Technical data			Technical data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
PA			PA			Steel, galvanized		
IP55 / IP65 (when using a CES-SRC../CES-LRC.. cone sleeve and a cable binder)			IP54 / IP55 (when using a CES-B...-SFFS-PLBK sealing frame with screw locking) / IP65 (when using a CES-B...-SFFS-PLBK sealing frame with screw locking and a cone sleeve with cable binder)			-		
2 Nm ... 4 Nm (Locking screw)			-			-		
V0			V0			-		
-40 ... 120			-20 ... 80			-		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
CES-B10-SFFS-PLBK	0801660	1	CES-B10-SF-PLBK	0801655	10	CES-B10-SFC-M	0801645	10
CES-B16-SFFS-PLBK	0801659	1	CES-B16-SF-PLBK	0801651	10	CES-B16-SFC-M	0801642	10
CES-B24-SFFS-PLBK	0801658	1	CES-B24-SF-PLBK	0801647	10	CES-B24-SFC-M	0801641	10
Accessories			Accessories			Accessories		
CES-B10-WRG-BK	0801725	10						
CES-B16-WRG-BK	0801726	10						
CES-B24-WRG-BK	0801727	10						
CES-SFFS-H	0801728	10						
SF-M BH	1212070	1						
SF-BIT-HEX 3-50	1212647	5						

Installation and mounting material - CABINET add-on

CES cable entry system

Cable sleeves, rubber

- Significantly improved long-term performance
- Resistant to oil, fuels, and grease
- Halogen-free

Notes:

The CES cable entry system was developed according to DIN EN 50262 (Cable glands for electrical installations).

The cable sleeves must be mounted in accordance with the mounting instructions provided.



Cable sleeves, small



Cable sleeves, large

General data

Material
Degree of protection

Temperature range [°C]

		Technical data		Technical data			
		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Description	Color						
Cone-shaped cable sleeves , IP65 in sealing frames with screw locking and cable binders, IP54 in sealing frames with locking latch. For cables with a diameter of:							
2 - 11 mm	black	CES-SRC-BK	0801718	10	CES-LRC-BK	0801719	10
7 - 24 mm	black						
Cable sleeves, IP65, without bore hole , can be used in sealing frames with locking latch and screw locking							
	black	CES-SRG-BK	0801670	10	CES-LRG-BK	0801671	10
Cable sleeves, small, slotted , can be used in sealing frames with locking latch and screw locking, for cable diameter of:							
1 - 2 mm	black	CES-SRG-BK-2	0801635	10			
2 - 3 mm	black	CES-SRG-BK-3	0801633	10			
3 - 4 mm	black	CES-SRG-BK-4	0801632	10			
4 - 5 mm	black	CES-SRG-BK-5	0801630	10			
5 - 6 mm	black	CES-SRG-BK-6	0801628	10			
6 - 7 mm	black	CES-SRG-BK-7	0801627	10			
7 - 8 mm	black	CES-SRG-BK-8	0801625	10			
8 - 9 mm	black	CES-SRG-BK-9	0801622	10			
9 - 10 mm	black	CES-SRG-BK-10	0801620	10			
10 - 11 mm	black	CES-SRG-BK-11	0801618	10			
11 - 12 mm	black	CES-SRG-BK-12	0801617	10			
12 - 13 mm	black	CES-SRG-BK-13	0801616	10			
13 - 14 mm	black	CES-SRG-BK-14	0801615	10			
14 - 15 mm	black	CES-SRG-BK-15	1410563	10			
15 - 16 mm	black	CES-SRG-BK-16	1410576	10			
16 - 17 mm	black	CES-SRG-BK-17	1410589	10			
Cable sleeves, large, slotted , can be used in sealing frames with locking latch and screw locking, for cable diameter of:							
14 - 15 mm	black				CES-LRG-BK-15	0801619	10
15 - 16 mm	black				CES-LRG-BK-16	0801621	10
16 - 17 mm	black				CES-LRG-BK-17	0801624	10
17 - 18 mm	black				CES-LRG-BK-18	0801626	10
18 - 19 mm	black				CES-LRG-BK-19	0801629	10
19 - 20 mm	black				CES-LRG-BK-20	0801631	10
20 - 21 mm	black				CES-LRG-BK-21	0801634	10
21 - 22 mm	black				CES-LRG-BK-22	0801637	10
22 - 23 mm	black				CES-LRG-BK-23	0801638	10
23 - 24 mm	black				CES-LRG-BK-24	0801639	10
24 - 25 mm	black				CES-LRG-BK-25	0801640	10
25 - 26 mm	black				CES-LRG-BK-26	0801643	10
26 - 27 mm	black				CES-LRG-BK-27	0801644	10
27 - 28 mm	black				CES-LRG-BK-28	0801646	10
28 - 29 mm	black				CES-LRG-BK-29	0801648	10
29 - 30 mm	black				CES-LRG-BK-30	0801650	10
30 - 31 mm	black				CES-LRG-BK-31	0801653	10
31 - 32 mm	black				CES-LRG-BK-32	0801654	10
32 - 33 mm	black				CES-LRG-BK-33	0801656	10

Cable sleeves, rubber, special formats

- Significantly improved long-term performance
- Resistant to oil, fuels, and grease
- Halogen-free

Notes:

The CES cable entry system was developed according to DIN EN 50262 (Cable glands for electrical installations).

The cable sleeves must be mounted in accordance with the mounting instructions provided.



Cable sleeves, small, with several bore holes



Cable sleeves, small, for AS interface cables

		Technical data		Technical data	
General data					
Material	NBR			NBR	
Degree of protection	IP54 / IP55 (when using a CES-B...-SFFS-PLBK sealing frame with screw locking)			IP54	
Temperature range [°C]	-40 ... 80			-40 ... 80	
		Ordering data		Ordering data	
Description	Color	Type	Order No.	Pcs. / Pkt.	Type
Cable sleeves, with 2 bore holes, small, slotted , can be used in sealing frames with locking latch and screw locking, for cable diameter of:					
2 x 2 mm ... 3 mm	black	CES-SRG-BK-2X3	1410398	10	
2 x 3 mm ... 4 mm	black	CES-SRG-BK-2X4	1410408	10	
2 x 4 mm ... 5 mm	black	CES-SRG-BK-2X5	0801657	10	
2 x 5 mm ... 6 mm	black	CES-SRG-BK-2X6	0801664	10	
2 x 6 mm ... 7 mm	black	CES-SRG-BK-2X7	1410084	10	
2 x 7 mm ... 8 mm	black	CES-SRG-BK-2X8	1410097	10	
2 x 8 mm ... 9 mm	black	CES-SRG-BK-2X9	1410411	10	
Cable sleeves, with 4 bore holes, small, slotted , can be used in sealing frames with locking latch and screw locking, for cable diameter of:					
4 x 2 mm ... 3 mm	black	CES-SRG-BK-4X3	0801665	10	
4 x 3 mm ... 4 mm	black	CES-SRG-BK-4X4	0801666	10	
4 x 4 mm ... 5 mm	black	CES-SRG-BK-4X5	1410107	1	
4 x 5 mm ... 6 mm	black	CES-SRG-BK-4X6	1410152	1	
Cable sleeve, IP54, slotted, for one AS-Interface cable, cable arrangement:					
L	black				CES-SRG-BK-1ASI-L
R	black				CES-SRG-BK-1ASI-R
Cable sleeve, IP54, slotted, for two AS-Interface cables, cable arrangement:					
LL	black				CES-SRG-BK-2ASI-LL
RR	black				CES-SRG-BK-2ASI-RR
LR	black				CES-SRG-BK-2ASI-LR

Installation and mounting material - CABINET add-on

CES cable entry system

Cable sleeves, thermoplastics

- Thermoplastic sleeves exhibit a low level of flammability according to UL 94 V0
- They have a high level of resistance to acids and lyes

Notes:

The CES cable entry system was developed according to DIN EN 50262 (Cable glands for electrical installations).

The cable sleeves must be mounted in accordance with the mounting instructions provided.



Cable sleeves, small



Cable sleeves, large

General data		Technical data		Technical data			
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Cable sleeves, small, slotted , can be used in sealing frames with locking latch and screw locking, for cable diameter of:							
1 - 2 mm	gray	CES-STPG-GY-2	0801672	10			
2 - 3 mm	gray	CES-STPG-GY-3	0801673	10			
3 - 4 mm	gray	CES-STPG-GY-4	0801674	10			
4 - 5 mm	gray	CES-STPG-GY-5	0801675	10			
5 - 6 mm	gray	CES-STPG-GY-6	0801676	10			
6 - 7 mm	gray	CES-STPG-GY-7	0801677	10			
7 - 8 mm	gray	CES-STPG-GY-8	0801679	10			
8 - 9 mm	gray	CES-STPG-GY-9	0801680	10			
9 - 10 mm	gray	CES-STPG-GY-10	0801682	10			
10 - 11 mm	gray	CES-STPG-GY-11	0801683	10			
11 - 12 mm	gray	CES-STPG-GY-12	0801684	10			
12 - 13 mm	gray	CES-STPG-GY-13	0801685	10			
13 - 14 mm	gray	CES-STPG-GY-14	0801686	10			
14 - 15 mm	gray	CES-STPG-GY-15	1410521	10			
15 - 16 mm	gray	CES-STPG-GY-16	1410534	10			
16 - 17 mm	gray	CES-STPG-GY-17	1410547	10			
Cable sleeves, large, slotted , can be used in sealing frames with locking latch and screw locking, for cable diameter of:							
14 - 15 mm	gray				CES-LTPG-GY-15	0801687	10
15 - 16 mm	gray				CES-LTPG-GY-16	0801688	10
16 - 17 mm	gray				CES-LTPG-GY-17	0801689	10
17 - 18 mm	gray				CES-LTPG-GY-18	0801690	10
18 - 19 mm	gray				CES-LTPG-GY-19	0801691	10
19 - 20 mm	gray				CES-LTPG-GY-20	0801692	10
20 - 21 mm	gray				CES-LTPG-GY-21	0801693	10
21 - 22 mm	gray				CES-LTPG-GY-22	0801695	10
22 - 23 mm	gray				CES-LTPG-GY-23	0801696	10
23 - 24 mm	gray				CES-LTPG-GY-24	0801697	10
24 - 25 mm	gray				CES-LTPG-GY-25	0801698	10
25 - 26 mm	gray				CES-LTPG-GY-26	0801699	10
26 - 27 mm	gray				CES-LTPG-GY-27	0801700	10
27 - 28 mm	gray				CES-LTPG-GY-28	0801701	10
28 - 29 mm	gray				CES-LTPG-GY-29	0801702	10
29 - 30 mm	gray				CES-LTPG-GY-30	0801703	10
30 - 31 mm	gray				CES-LTPG-GY-31	0801705	10
31 - 32 mm	gray				CES-LTPG-GY-32	0801706	10
32 - 33 mm	gray				CES-LTPG-GY-33	0801707	10
Cable sleeves, IP65, without bore hole , can be used in sealing frames with locking latch and screw locking							
gray	CES-STPG-GY	0801715	10		CES-LTPG-GY	0801716	10

Cable sleeves, thermoplastics, special formats

- Thermoplastic sleeves exhibit a low level of flammability according to UL 94 V0
- They have a high level of resistance to acids and lyes

Notes:

The CES cable entry system was developed according to DIN EN 50262 (Cable glands for electrical installations).

The cable sleeves must be mounted in accordance with the mounting instructions provided.



Cable sleeves, small, with several bore holes



Cable sleeves, small, for AS interface cables

		Technical data		Technical data	
General data					
Material	SEBS			SEBS	
Degree of protection	IP54 / IP55 (when using a CES-B...-SFFS-PLBK sealing frame with screw locking)			IP54	
Inflammability class according to UL 94	V0			V0	
Temperature range	-40 ... 80			-40 ... 80	
		Ordering data		Ordering data	
Description	Color	Type	Order No.	Pcs. / Pkt.	Type
Cable sleeves, with 2 bore holes, small, slotted , can be used in sealing frames with locking latch and screw locking, for cable diameter of:					
2 x 2 mm ... 3 mm	gray	CES-STPG-GY-2X3	1410424	10	
2 x 3 mm ... 4 mm	gray	CES-STPG-GY-2X4	1410438	10	
2 x 4 mm ... 5 mm	gray	CES-STPG-GY-2X5	0801708	10	
2 x 5 mm ... 6 mm	gray	CES-STPG-GY-2X6	0801709	10	
2 x 6 mm ... 7 mm	gray	CES-STPG-GY-2X7	1410110	10	
2 x 7 mm ... 8 mm	gray	CES-STPG-GY-2X8	1410123	10	
2 x 8 mm ... 9 mm	gray	CES-STPG-GY-2X9	1410440	10	
Cable sleeves, with 4 bore holes, small, slotted , can be used in sealing frames with locking latch and screw locking, for cable diameter of:					
4 x 2 mm ... 3 mm	gray	CES-STPG-GY-4X3	0801710	10	
4 x 3 mm ... 4 mm	gray	CES-STPG-GY-4X4	0801711	10	
4 x 4 mm ... 5 mm	gray	CES-STPG-GY-4X5	1410136	10	
4 x 5 mm ... 6 mm	gray	CES-STPG-GY-4X6	1410149	10	
Cable sleeve, IP54, slotted, for one AS-Interface cable, cable arrangement:					
L	gray				CES-STPG-GY-1ASI-L
R	gray				CES-STPG-GY-1ASI-R
Cable sleeve, IP54, slotted, for two AS-Interface cables, cable arrangement:					
LL	gray				CES-STPG-GY-2ASI-LL
RR	gray				CES-STPG-GY-2ASI-RR
LR	gray				CES-STPG-GY-2ASI-LR

Installation and mounting material - CABINET add-on

CES cable entry system

Accessories, filler plugs, seals, replacement screws



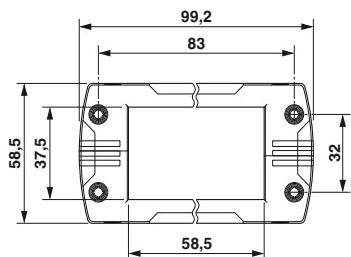
Diameter of 2 to 17 mm



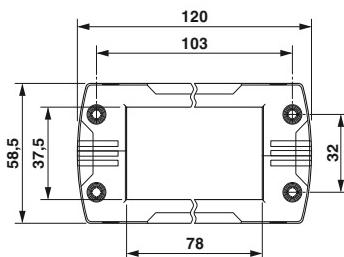
For mounting on CES sealing frames

General data		Technical data			Technical data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Plugs , for closing unoccupied cable sleeves with a diameter of:							
2 mm	white	KDT-ST 2	1410220	25			
3 mm	white	KDT-ST 3	3063921	25			
4 mm	white	KDT-ST 4	3063934	25			
5 mm	white	KDT-ST 5	3063947	25			
6 mm	white	KDT-ST 6	3063950	25			
7 mm	white	KDT-ST 7	3063963	25			
8 mm	white	KDT-ST 8	3063976	25			
9 mm	white	KDT-ST 9	3063989	25			
10 mm	white	KDT-ST 10	3063992	25			
11 mm	white	KDT-ST 11	3064001	25			
12 mm	white	KDT-ST 12	3062016	25			
13 mm	white	KDT-ST 13	3062029	25			
14 mm	white	KDT-ST 14	3062032	25			
15 mm	white	KDT-ST 15	3062045	25			
16 mm	white	KDT-ST 16	3062058	25			
17 mm	white	KDT-ST 17	3062061	25			
EMC cable catch rail , for mounting on the longitudinal side of the CES sealing frame CES-B16...					KEL-EMV 16-4	3063507	5
EMC cable catch rail , for mounting on the longitudinal side of the CES sealing frame CES-B24...					KEL-EMV 24-5	3063510	5
EMC cable catch rail , for mounting on the diagonal side of the CES sealing frames CES-B16... and CES-24...					KEL-EMV-F	3063523	5

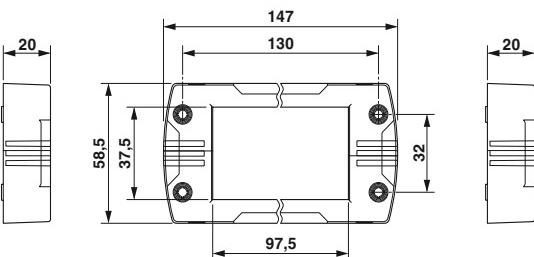
**Dimensional drawings
CES... sealing frame**



CES-B10-HFFS-PLBK
CES-B10-SFFS-PLBK

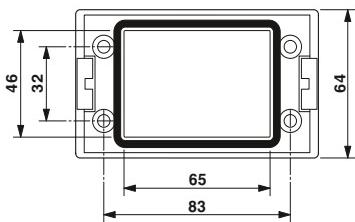
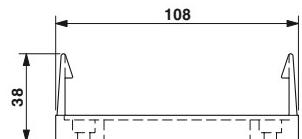


CES-B16-HFFS-PLBK
CES-B16-SFFS-PLBK

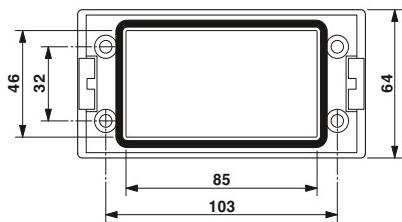
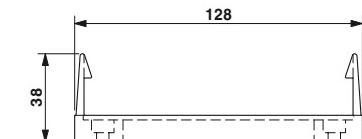


CES-B24-HFFS-PLBK
CES-B24-SFFS-PLBK

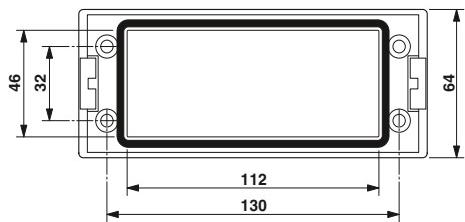
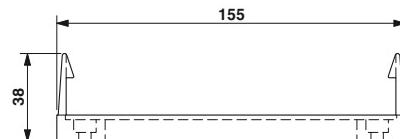
**Dimensional drawings
CES... snap-up frame**



CES-B10-SF-PLBK

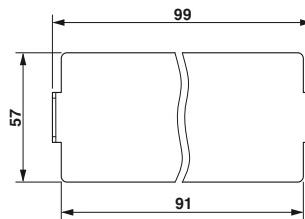


CES-B16-SF-PLBK

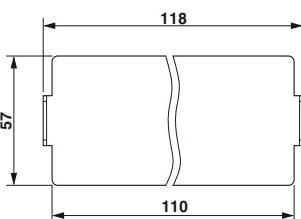
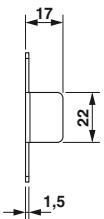


CES-B24-SF-PLBK

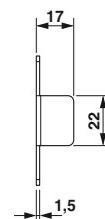
**Dimensional drawings
CES... locking plate**



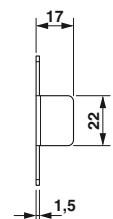
CES-B10-SFC-M



CES-B16-SFC-M

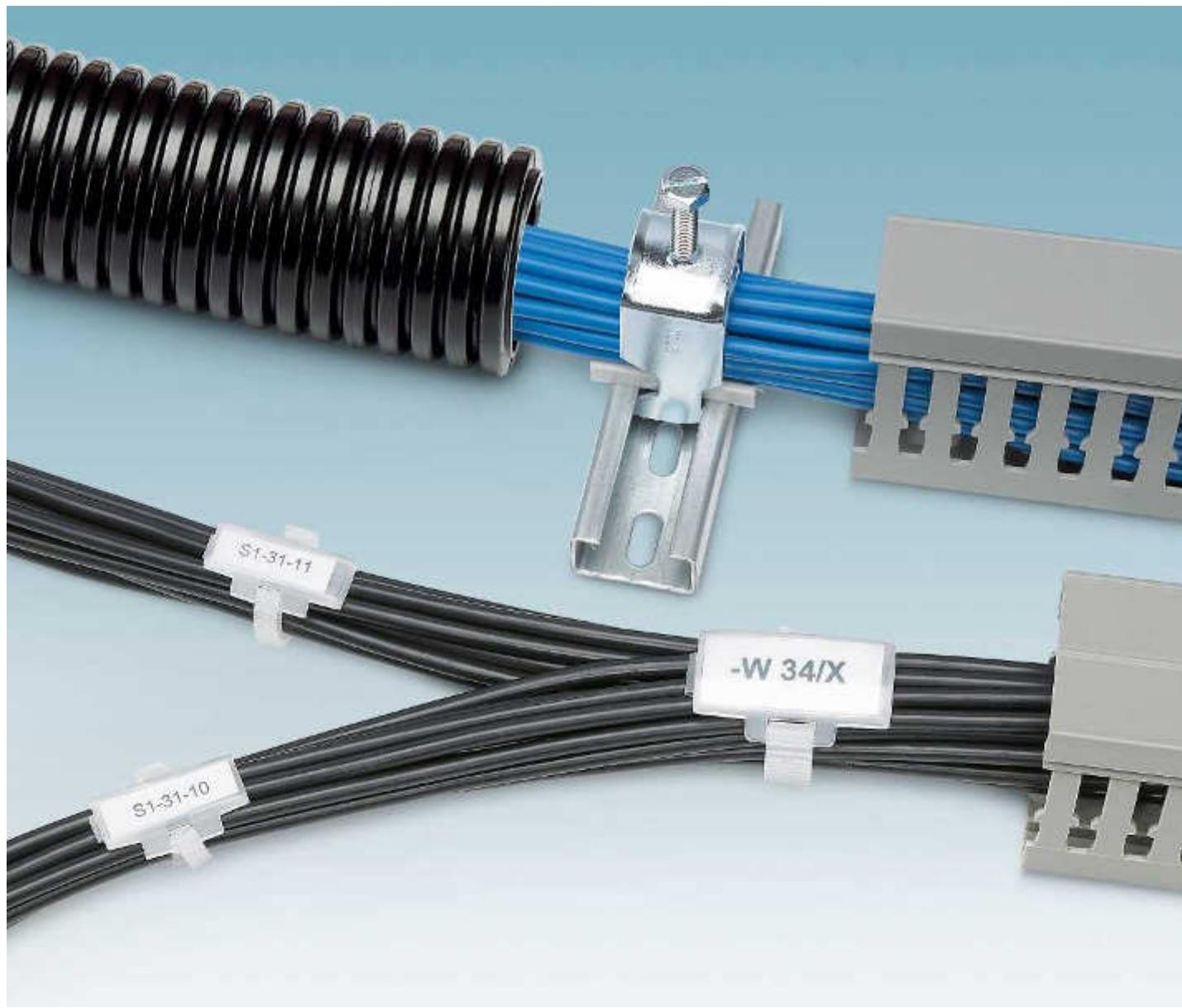


CES-B24-SFC-M



Installation and mounting material - CABINET add-on

Cable routing, cable protection, cable bundling



Cable routing

The wide choice of cable ducts provides users with flexible and straightforward cable installation solutions that simply involve breaking out the lateral segments without any need for tools. The cable ducts are available in different colors and with a halogen-free design.

Cable protection

The extensive product range of protective hoses made of plastic and metal offers the ideal solution for every application. Protective hose screw connections with tool-free quick mounting function and various IP degrees of protection round off the range of products.

Cable bundling

For bundling cables, detectable cable binders and stainless steel or plastic cable binders are available in either a removable version or with a labeling area. Whether you are working in the food industry or the offshore sector, our comprehensive product range offers the ideal solution for every application.

Halogen-free cable ducts and accessories



Halogen-free cable ducts are recommended for use in many areas that are subject to high safety requirements, such as high-rise buildings, office buildings, and public facilities where there is a high volume of foot traffic, e.g., airports. The key features of the cable ducts are as follows:

- Installed conductors are securely held in place by means of wire retaining clips that can be snapped onto bars on the side
- The wide, diagonal heads of the cable duct bars make it easy to fit the cover and hold it securely in place
- Predetermined breaking point enables tool-free, burr-free removal of bars
- Fast and seamless creation of T and cross connections by means of an additional predetermined breaking point in the cable duct base
- Cover is securely held in place for both horizontal and vertical mounting

Notes:

For cable ducts cut to customer requirements, visit www.phoenixcontact.net/products



General data

Material	PC/ABS
Components	Halogen-free
Inflammability class according to UL 94	V0
Temperature range	-25 ... 90 °C

Technical data

Description	Color	Type	Order No.	Pcs. / Pkt.
Cable duct, 2000 mm long, consisting of lower and upper part				
W x H: 25 x 25 mm	Light gray	CD-HF 25X25	3240340	25
W x H: 25 x 40 mm	Light gray	CD-HF 25X40	3240341	24
W x H: 25 x 60 mm	Light gray	CD-HF 25X60	3240342	15
W x H: 25 x 80 mm	Light gray	CD-HF 25X80	3240343	10
W x H: 30 x 40 mm	Light gray	CD-HF 30X40	3240344	20
W x H: 30 x 60 mm	Light gray	CD-HF 30X60	3240345	24
W x H: 30 x 80 mm	Light gray	CD-HF 30X80	3240346	12
W x H: 30 x 100 mm	Light gray	CD-HF 30X100	3240347	12
W x H: 40 x 40 mm	Light gray	CD-HF 40X40	3240348	25
W x H: 40 x 60 mm	Light gray	CD-HF 40X60	3240349	20
W x H: 40 x 80 mm	Light gray	CD-HF 40X80	3240350	10
W x H: 40 x 100 mm	Light gray	CD-HF 40X100	3240351	10
W x H: 60 x 40 mm	Light gray	CD-HF 60X40	3240352	20
W x H: 60 x 60 mm	Light gray	CD-HF 60X60	3240353	12
W x H: 60 x 80 mm	Light gray	CD-HF 60X80	3240354	10
W x H: 60 x 100 mm	Light gray	CD-HF 60X100	3240355	8
W x H: 80 x 25 mm	Light gray	CD-HF 80X25	3240356	12
W x H: 80 x 40 mm	Light gray	CD-HF 80X40	3240357	15
W x H: 80 x 60 mm	Light gray	CD-HF 80X60	3240358	10
W x H: 80 x 80 mm	Light gray	CD-HF 80X80	3240359	6
W x H: 80 x 100 mm	Light gray	CD-HF 80X100	3240360	8
W x H: 100 x 40 mm	Light gray	CD-HF 100X40	3240361	10
W x H: 100 x 60 mm	Light gray	CD-HF 100X60	3240362	8
W x H: 100 x 80 mm	Light gray	CD-HF 100X80	3240363	6
W x H: 100 x 100 mm	Light gray	CD-HF 100X100	3240364	6
W x H: 120 x 60 mm	Light gray	CD-HF 120X60	3240365	6
W x H: 120 x 80 mm	Light gray	CD-HF 120X80	3240366	4

Accessories

Upper cable duct part, 2000 mm long			
For a width of 25 mm	CD-HF COVER 25	3240369	14
For a width of 30 mm	CD-HF COVER 30	3240370	10
For a width of 40 mm	CD-HF COVER 40	3240371	14
For a width of 60 mm	CD-HF COVER 60	3240372	10
For a width of 80 mm	CD-HF COVER 80	3240373	10
For a width of 100 mm	CD-HF COVER 100	3240367	7
For a width of 120 mm	CD-HF COVER 120	3240368	6
Universal wire holding bracket, pre-perforated for cable duct widths of 40, 60, 80, and 100 mm			
Plastic body-bound rivet, 4 mm diameter, for a material thickness of 1.5 ... 6 mm	CD WR	3240284	10
6 mm diameter, material thickness of 2 ... 8 mm	RVT-PA 4	3240498	100
	RVT-PA 6	3240499	100
Rivet setting tool, for use with RVT-PA 4 plastic body-bound rivets	UNIFOX-RVT P 4	1212478	1
Rivet setting tool, for use with RVT-PA 6 plastic body-bound rivets	UNIFOX-RVT P 6	1212509	1

Installation and mounting material - CABINET add-on

Cable routing, cable protection, cable bundling

Cable ducts and accessories



- Installed conductors are securely held in place by means of wire retaining clips that can be snapped onto bars on the side
- The wide, diagonal heads of the cable duct bars make it easy to fit the cover and hold it securely in place



- Predetermined breaking point enables tool-free, burr-free removal of bars
- The CUTFOX-CD cable duct cutter for easy cutting with minimum effort and no burrs

Notes:

For cable ducts cut to customer requirements, visit: www.phoenixcontact.net/products.

General data

Material
Inflammability class according to UL 94
Temperature range

[°C]

Description

Cable duct, 2000 mm long, consisting of **lower** and **upper part**

W x H: 25 x 25 mm
W x H: 25 x 40 mm
W x H: 25 x 60 mm
W x H: 25 x 80 mm
W x H: 30 x 40 mm
W x H: 30 x 60 mm
W x H: 30 x 80 mm
W x H: 30 x 100 mm
W x H: 40 x 40 mm
W x H: 40 x 60 mm
W x H: 40 x 80 mm
W x H: 40 x 100 mm
W x H: 60 x 40 mm
W x H: 60 x 60 mm
W x H: 60 x 80 mm
W x H: 60 x 100 mm
W x H: 80 x 25 mm
W x H: 80 x 40 mm
W x H: 80 x 60 mm
W x H: 80 x 80 mm
W x H: 80 x 100 mm
W x H: 100 x 40 mm
W x H: 100 x 60 mm
W x H: 100 x 80 mm
W x H: 100 x 100 mm
W x H: 120 x 60 mm
W x H: 120 x 80 mm



- Plastic body-bound rivets enable easy fixing of cable ducts using the rivet setting tool



- Thanks to its powerful leverage and special blade geometry, the PPS CD cable duct cutter allows easy cutting with minimum effort and no burrs

Upper cable duct part, 2000 mm long

For a width of 25 mm
For a width of 30 mm
For a width of 40 mm
For a width of 60 mm
For a width of 80 mm
For a width of 100 mm
For a width of 120 mm

Universal wire holding bracket, pre-perforated for cable duct widths of 40, 60, 80, and 100 mm

Plastic body-bound rivet, 4 mm diameter, for a material thickness of 1.5 ... 6 mm

6 mm diameter, material thickness of 2 ... 8 mm

Rivet setting tool, for use with RVT-PA 4 plastic body-bound rivets

Rivet setting tool, for use with RVT-PA 6 plastic body-bound rivets



Cable ducts, gray



Cable ducts, white



Cable ducts, blue



Technical data		
PVC V0 -5 ... 60		

Technical data		
PVC V0 -5 ... 60		

Technical data		
PVC V0 -5 ... 60		

Ordering data		
Type	Order No.	Pcs. / Pkt.
CD 25X25	3240187	25
CD 25X40	3240188	24
CD 25X60	3240191	15
CD 25X80	3240197	10
CD 30X40	3240278	20
CD 30X60	3240280	24
CD 30X80	3240282	12
CD 30X100	3240283	12
CD 40X40	3240189	25
CD 40X60	3240192	20
CD 40X80	3240198	10
CD 40X100	3240294	10
CD 60X40	3240190	20
CD 60X60	3240193	12
CD 60X80	3240199	10
CD 60X100	3240263	8
CD 80X25	3240281	12
CD 80X40	3240335	15
CD 80X60	3240194	10
CD 80X80	3240200	6
CD 80X100	3240264	8
CD 100X40	3240279	10
CD 100X60	3240195	8
CD 100X80	3240201	6
CD 100X100	3240205	6
CD 120X60	3240196	6
CD 120X80	3240202	4

Ordering data		
Type	Order No.	Pcs. / Pkt.
CD 25X25 WH	3240616	25
CD 25X40 WH	3240617	24
CD 25X60 WH	3240618	15
CD 25X80 WH	3240619	10
CD 30X40 WH	3240620	20
CD 30X60 WH	3240621	24
CD 30X80 WH	3240622	12
CD 30X100 WH	3240623	12
CD 40X40 WH	3240624	25
CD 40X60 WH	3240625	20
CD 40X80 WH	3240626	10
CD 40X100 WH	3240627	10
CD 60X40 WH	3240628	20
CD 60X60 WH	3240629	12
CD 60X80 WH	3240630	10
CD 60X100 WH	3240631	8
CD 80X25 WH	3240632	12
CD 80X40 WH	3240633	15
CD 80X60 WH	3240634	10
CD 80X80 WH	3240635	6
CD 80X100 WH	3240636	8
CD 100X40 WH	3240637	10
CD 100X60 WH	3240638	8
CD 100X80 WH	3240639	6
CD 100X100 WH	3240640	6
CD 120X60 WH	3240641	6
CD 120X80 WH	3240642	4

Ordering data		
Type	Order No.	Pcs. / Pkt.
CD 25X25 BU	3240301	25
CD 25X40 BU	3240302	24
CD 25X60 BU	3240303	15
CD 25X80 BU	3240304	10
CD 30X40 BU	3240305	20
CD 30X60 BU	3240306	24
CD 30X80 BU	3240307	12
CD 30X100 BU	3240308	12
CD 40X40 BU	3240309	25
CD 40X60 BU	3240310	20
CD 40X80 BU	3240311	10
CD 40X100 BU	3240312	10
CD 60X40 BU	3240313	20
CD 60X60 BU	3240314	12
CD 60X80 BU	3240315	10
CD 60X100 BU	3240316	8
CD 80X25 BU	3240317	12
CD 80X40 BU	3240318	15
CD 80X60 BU	3240319	12
CD 80X80 BU	3240320	6
CD 80X100 BU	3240321	8
CD 100X40 BU	3240322	10
CD 100X60 BU	3240323	8
CD 100X80 BU	3240324	6
CD 100X100 BU	3240325	6
CD 120X60 BU	3240326	6
CD 120X80 BU	3240327	4

Accessories		
CD COVER 25	3240285	14
CD COVER 30	3240295	20
CD COVER 40	3240286	14
CD COVER 60	3240287	10
CD COVER 80	3240288	10
CD COVER 100	3240289	6
CD COVER 120	3240290	6

Accessories		
CD COVER 25 WH	3240645	14
CD COVER 30 WH	3240646	10
CD COVER 40 WH	3240647	14
CD COVER 60 WH	3240648	10
CD COVER 80 WH	3240649	10
CD COVER 100 WH	3240643	6
CD COVER 120 WH	3240644	6

Accessories		
CD COVER 25 BU	3240330	14
CD COVER 30 BU	3240331	10
CD COVER 40 BU	3240332	14
CD COVER 60 BU	3240333	10
CD COVER 80 BU	3240334	10
CD COVER 100 BU	3240328	6
CD COVER 120 BU	3240329	6

CD WR	3240284	10
RVT-PA 4	3240498	100
RVT-PA 6	3240499	100

RVT-PA 4	3240498	100
RVT-PA 6	3240499	100

RVT-PA 4	3240498	100
RVT-PA 6	3240499	100

UNIFOX-RVT P 4	1212478	1
UNIFOX-RVT P 6	1212509	1

UNIFOX-RVT P 6	1212509	1
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Installation and mounting material - CABINET add-on

Cable routing, cable protection, cable bundling

Cable duct cutters



- Easy, burr-free cutting with minimum effort thanks to the special cutting geometry and optimum leverage
- Non-slip ergonomic grip
- With spring reset
- 45° limit stop
- 75 mm cutting width



Technical data

Dimensions	[mm]	Width -	Length 245	Height -
General data		Weight [kg]	0.43	

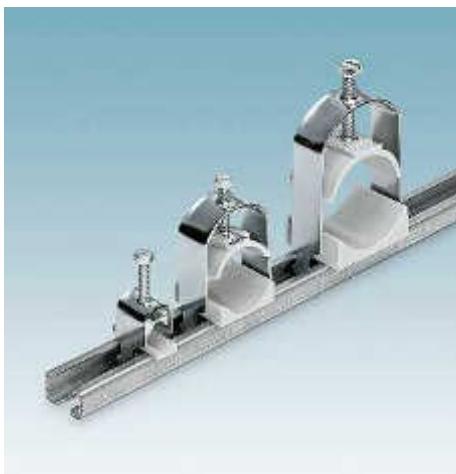
Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Cable duct cutter	black	CUTFOX-CD	1212474	1
Cable duct cutters	black	PPS CD M	1207569	1

Accessories

Replacement blade, for PPS CD M	PPS CD BLADE	1207572	1
Replacement counter support (grip protection), for PPS CD M			
	PPS CD M COHO	1208995	1
Workbench, with plywood panel 700 x 1200 x 50 mm, without mounting screws and bore holes	PPS TABLE	1206285	1

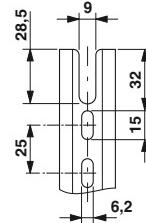
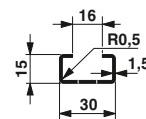


Cable clamps and DIN rail

Cable clamps
for a cable diameter of 6 - 64 mm

- The cable clamps provide strain relief
- Individual or bundled cables with a diameter of up to 64 mm can be safely and easily installed
- The halogen-free plastic troughs have been designed to be perfectly secure while at the same time protecting the conductors

Technical data			
General data		Steel	
Description		Type	Order No.
Cable clamp , for DIN rail			
For cable diameters of 6 – 14 mm	WCC 14	3240252	25
For cable diameters of 12 – 18 mm	WCC 18	3240253	25
For cable diameters of 18 – 22 mm	WCC 22	3240254	25
For cable diameters of 22 – 26 mm	WCC 26	3240255	25
For cable diameters of 26 – 30 mm	WCC 30	3240256	25
For cable diameters of 30 – 34 mm	WCC 34	3240257	25
For cable diameters of 34 – 38 mm	WCC 38	3240258	25
For cable diameters of 38 – 42 mm	WCC 42	3240259	25
For cable diameters of 42 – 56 mm	WCC 56	3240260	25
For cable diameters of 56 – 64 mm	WCC 64	3240261	25
DIN rails , for cable clamps		NS 30/15 PERF.2000MM	3240262
			5



NS 30/15 PERF. 2000MM DIN rail

Installation and mounting material - CABINET add-on

Cable routing, cable protection, cable bundling

Protective hoses made of plastic



The plastic protective hoses offer optimum protection, thanks to the following properties:

- Airtight and liquid tight
- Oil-resistant up to +80°C
- Gasoline-resistant
- Largely resistant to acids and solvents
- Free from silicone, halogen, and cadmium
- UV resistant

The V0 version offers additional protection, thanks to its self-extinguishing property. This makes it suitable for use in the following areas:

- Machine and system engineering
- Vehicle construction
- Rail vehicles
- Shipbuilding
- Automation
- Electrical systems

The transition and end sleeves offer an alternative form of termination to the actual cable gland.

- Can be used wherever it is not possible or necessary to attach a cable gland
- Prevent damage to the conductors being fed through



Notes:

Pcs. / Pkt. specifies the protective hose length in [m].



Slotted, outside diameter of 21.2 - 42.5 mm



Technical data

General data

Material	PA
Components	Free from silicone, halogen, and cadmium
Inflammability class according to UL 94	HB
Temperature range	-40 ... 105 [°C]

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Protective hose, slotted, for retrofitting				
Diameter [mm] Outside/inside	Bending radius [mm] static			
21.2 / 16.5	40	black	WP-PA HF-SL 21,2 BK	3240845
28.5 / 23	45	black	WP-PA HF-SL 28,5 BK	3240846
34.5 / 29	55	black	WP-PA HF-SL 34,5 BK	3240847
42.5 / 36	65	black	WP-PA HF-SL 42,5 BK	3240848
Protective hose				
Diameter [mm] Outside/inside	Bending radius [mm] static/dynamic			
10 / 6.5	13 / 35	black		
13 / 10	20 / 45	black		
15.8 / 12	35 / 55	black		
21.2 / 16.5	45 / 75	black		
28.5 / 23	55 / 100	black		
34.5 / 29	65 / 120	black		
42.5 / 36	90 / 150	black		
Protective hose				
Diameter [mm] Outside/inside	Bending radius [mm] static/dynamic			
10 / 6.5	13 / 35	black		
13 / 10	20 / 45	black		
15.8 / 12	35 / 55	black		
21.2 / 16.5	45 / 75	black		
28.5 / 23	55 / 100	black		
34.5 / 29	65 / 120	black		
42.5 / 36	90 / 150	black		
Transition sleeves, from hose to cable				
Diameter [mm] Outside/inside				
10 / 8		black		
13 / 10		black		
15.8 / 12		black		
21.2 / 16.5		black		
28.2 / 23		black		
34.5 / 29		black		
42.5 / 37		black		
End sleeves				
Diameter [mm] Outside/inside				
10 / 4.3		black		
13 / 7.8		black		
15.8 / 10.3		black		
21.2 / 14.3		black		
28.2 / 20.8		black		
34.5 / 26.8		black		
42.5 / 33.8		black		



**PA 6.6 V0 plastic protective hose,
outside diameter of 10 - 42.5 mm**



**PA 6.6 HB plastic protective hose,
outside diameter of 10 - 42.5 mm**



**Transition sleeve for
protective hose diameters of 10 - 42.5 mm**



Technical data			Technical data			Technical data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
PA			PA			TPE		
Free from silicone, halogen, and cadmium			Free from silicone, halogen, and cadmium			Halogen-free		
HB			HB			HB		
-40 ... 115			-40 ... 105			-40 ... 120		
Ordering data			Ordering data			Ordering data		
WP-PA HF 10,0 BK	3240680	50	WP-PA HF-HB 10,0 BK	3240838	50	WP-EC TPE HF 10,0 BK	3240974	50
WP-PA HF 13,0 BK	3240681	50	WP-PA HF-HB 13,0 BK	3240839	50	WP-EC TPE HF 13,0 BK	3240975	50
WP-PA HF 15,8 BK	3240682	50	WP-PA HF-HB 15,8 BK	3240840	50	WP-EC TPE HF 15,8 BK	3240976	50
WP-PA HF 21,2 BK	3240683	50	WP-PA HF-HB 21,2 BK	3240841	50	WP-EC TPE HF 21,2 BK	3240977	50
WP-PA HF 28,5 BK	3240684	50	WP-PA HF-HB 28,5 BK	3240842	50	WP-EC TPE HF 28,5 BK	3240978	25
WP-PA HF 34,5 BK	3241088	25	WP-PA HF-HB 34,5 BK	3240843	25	WP-EC TPE HF 34,5 BK	3240979	25
WP-PA HF 42,5 BK	3241089	25	WP-PA HF-HB 42,5 BK	3240844	25	WP-EC TPE HF 42,5 BK	3240980	25
						WP-SC PA HF 10,0 BK	3240981	50
						WP-SC PA HF 13,0 BK	3240982	50
						WP-SC PA HF 15,8 BK	3240983	50
						WP-SC PA HF 21,2 BK	3240984	50
						WP-SC PA HF 28,5 BK	3240985	25
						WP-SC PA HF 34,5 BK	3240986	25
						WP-SC PA HF 42,5 BK	3240987	25

Installation and mounting material - CABINET add-on

Cable routing, cable protection, cable bundling

Screw connections for plastic protective hoses



The plastic screw connections with straight design are available in IP66 and IP69K protection classes.

They offer the following features:

- Vibration-resistant, automatic protective hose latching
- Pg or metric thread
- Resistant to oil and gasoline
- Resistant to acids and solvents
- Free from silicone, halogen, and cadmium

Tool-free protective hose mounting

- Secure, reliable, and easy latching in the hose screw connection, see figure below



Notes:

For accessories and dimensional drawings, see www.phoenixcontact.net/products.



IP66 degree of protection, Pg7 - Pg36 thread



Technical data

General data

Material	PA
Components	Free from silicone, halogen, and cadmium
Degree of protection	IP66
Thread type	Pg
Inflammability class according to UL 94	V0
Temperature range	-40 ... 115 [°C]

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Screw connection, IP66, straight, with Pg thread, for protective hose outside diameter [mm]				
10	black	WP-G HF IP66 PG7 BK	3240888	50
13	black	WP-G HF IP66 PG9 BK	3240889	50
15.8	black	WP-G HF IP66 PG11 BK	3240890	50
21.2	black	WP-G HF IP66 PG16 BK	3240891	50
28.5	black	WP-G HF IP66 PG21 BK	3240892	25
34.5	black	WP-G HF IP66 PG29 BK	3240893	25
42.5	black	WP-G HF IP66 PG36 BK	3240894	25
Screw connection, IP66, straight, with metric thread, for protective hose outside diameter [mm]				
10	black			
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
42.5	black			
Screw connection, IP69K, straight, with Pg thread, for protective hose outside diameter [mm]				
10	black			
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
42.5	black			
Screw connection, IP69K, straight, with metric thread, for protective hose outside diameter [mm]				
10	black			
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
42.5	black			

Accessories

Counter nuts and seals

see page 568 onwards

IP66 degree of protection,
M10 - M40 metric thread

IP69K degree of protection, Pg7 - Pg36 thread

IP69K degree of protection,
M10 - M40 metric thread

Technical data			Technical data			Technical data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
PA Free from silicone, halogen, and cadmium IP66 metric V0 -40 ... 115			PA Free from silicone, halogen, and cadmium IP68/IP69K Pg V0 -40 ... 115			PA Free from silicone, halogen, and cadmium IP68/IP69K metric V0 -40 ... 115		
WP-G HF IP66 M10 BK WP-G HF IP66 M12 BK WP-G HF IP66 M16 BK WP-G HF IP66 M20 BK WP-G HF IP66 M25 BK WP-G HF IP66 M32 BK WP-G HF IP66 M40 BK	3240895 3240896 3240897 3240898 3240899 3240900 3240901	50 50 50 50 25 25 25	WP-G HF IP69K PG7 BK WP-G HF IP69K PG9 BK WP-G HF IP69K PG11 BK WP-G HF IP69K PG16 BK WP-G HF IP69K PG21 BK WP-G HF IP69K PG29 BK WP-G HF IP69K PG36 BK	3240874 3240875 3240876 3240877 3240878 3240879 3240880	50 50 50 50 25 25 25	WP-G HF IP69K M10 BK WP-G HF IP69K M12 BK WP-G HF IP69K M16 BK WP-G HF IP69K M20 BK WP-G HF IP69K M25 BK WP-G HF IP69K M32 BK WP-G HF IP69K M40 BK	3240881 3240882 3240883 3240884 3240885 3240886 3240887	50 50 50 50 25 25 25
Accessories			Accessories			Accessories		
see page 568 onwards			see page 568 onwards			see page 568 onwards		

Installation and mounting material - CABINET add-on

Cable routing, cable protection, cable bundling

Screw connections, angled, for plastic protective hoses



The plastic screw connections with angled design are available in IP66 and IP69K protection classes. They offer the following features:

- Vibration-resistant, automatic protective hose latching
- Pg or metric thread
- Resistant to oil and gasoline
- Resistant to acids and solvents
- Free from silicone, halogen, and cadmium

Tool-free protective hose mounting

- Secure, reliable, and easy latching in the hose screw connection

Notes:

For accessories and dimensional drawings, see www.phoenixcontact.net/products.



IP66 degree of protection, Pg7 - Pg36 thread



Technical data

General data

Material	PA
Components	Free from silicone, halogen, and cadmium
Degree of protection	IP66
Thread type	Pg
Inflammability class according to UL 94	HB
Temperature range	-40 ... 115 [°C]

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Screw connection, IP66, 90° angled, with Pg thread, for protective hose outside diameter [mm]				
10	black	WP-GA HF IP66 PG7 BK	3240916	50
13	black	WP-GA HF IP66 PG9 BK	3240917	50
15.8	black	WP-GA HF IP66 PG11 BK	3240918	50
21.2	black	WP-GA HF IP66 PG16 BK	3240919	50
28.5	black	WP-GA HF IP66 PG21 BK	3240920	25
34.5	black	WP-GA HF IP66 PG29 BK	3240921	10
42.5	black	WP-GA HF IP66 PG36 BK	3240922	10
Screw connection, IP66, 90° angled, with metric thread, for protective hose outside diameter [mm]				
10	black			
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
42.5	black			
Screw connection, IP69K, 90° angled, with Pg thread, for protective hose outside diameter [mm]				
10	black			
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
42.5	black			
Screw connection, IP69K, 90° angled, with metric thread, for protective hose outside diameter [mm]				
10	black			
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
42.5	black			

Accessories

Counter nuts and seals

see page 568 onwards

IP66 degree of protection,
M10 - M40 metric thread

IP69K degree of protection, Pg7 - Pg36 thread

IP69K degree of protection,
M10 - M40 metric thread

Technical data			Technical data			Technical data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
WP-GA HF IP66 M10 BK	3240923	50	WP-GA HF IP69K PG7 BK	3240902	50	WP-GA HF IP69K M10 BK	3240909	50
WP-GA HF IP66 M12 BK	3240924	50	WP-GA HF IP69K PG9 BK	3240903	50	WP-GA HF IP69K M12 BK	3240910	50
WP-GA HF IP66 M16 BK	3240925	50	WP-GA HF IP69K PG11 BK	3240904	50	WP-GA HF IP69K M16 BK	3240911	50
WP-GA HF IP66 M20 BK	3240926	50	WP-GA HF IP69K PG16 BK	3240905	50	WP-GA HF IP69K M20 BK	3240912	50
WP-GA HF IP66 M25 BK	3240927	50	WP-GA HF IP69K PG21 BK	3240906	25	WP-GA HF IP69K M25 BK	3240913	25
WP-GA HF IP66 M32 BK	3240928	25	WP-GA HF IP69K PG29 BK	3240907	10	WP-GA HF IP69K M32 BK	3240914	10
WP-GA HF IP66 M40 BK	3240929	10	WP-GA HF IP69K PG36 BK	3240908	10	WP-GA HF IP69K M40 BK	3240915	10
Accessories			Accessories			Accessories		
see page 568 onwards			see page 568 onwards			see page 568 onwards		

Installation and mounting material - CABINET add-on

Cable routing, cable protection, cable bundling

Screw connections with strain relief, for plastic protective hoses

Notes:

For accessories and dimensional drawings,
see www.phoenixcontact.net/products.



The plastic screw connections with strain relief are available in IP66 and IP69K protection classes.

They offer the following features:

- Vibration-resistant, automatic protective hose latching
- Pg or metric thread
- Integrated cable strain relief
- Resistant to oil and gasoline
- Resistant to acids and solvents
- Free from silicone, halogen, and cadmium

Tool-free protective hose mounting

– Secure, reliable, and easy latching in the hose screw connection



IP66 degree of protection, Pg7 - Pg36 thread,
with strain relief



Technical data

General data

Material	PA
Components	Free from silicone, halogen, and cadmium
Degree of protection	IP66
Thread type	Pg
Inflammability class according to UL 94	V0
Temperature range	-40 ... 115 [°C]

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Screw connection, IP66, straight, with Pg thread, for protective hose outside diameter [mm]				
10	black	WP-GR HF IP66 PG7 BK	3240944	20
13	black	WP-GR HF IP66 PG9 BK	3240945	20
15.8	black	WP-GR HF IP66 PG11 BK	3240946	20
21.2	black	WP-GR HF IP66 PG16 BK	3240947	10
28.5	black	WP-GR HF IP66 PG21 BK	3240948	10
34.5	black	WP-GR HF IP66 PG29 BK	3240949	10
42.5	black	WP-GR HF IP66 PG36 BK	3240950	10
Screw connection, IP66, straight, with metric thread, for protective hose outside diameter [mm]				
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
42.5	black			
Screw connection, IP69K, straight, with Pg thread, for protective hose outside diameter [mm]				
10	black			
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
42.5	black			
Screw connection, IP69K, straight, with metric thread, for protective hose outside diameter [mm]				
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
42.5	black			

Accessories

Counter nuts and seals

see page 568 onwards



IP66 degree of protection, M12 - M40 metric thread, with strain relief



IP69K degree of protection, Pg7 - Pg36 thread, with strain relief



IP69K degree of protection, M12 - M40 metric thread, with strain relief

**Technical data**

PA
Free from silicone, halogen, and cadmium
IP66
metric
V0
-40 ... 115

Ordering data

Type	Order No.	Pcs. / Pkt.
WP-GR HF IP66 M12 BK	3240952	20
WP-GR HF IP66 M16 BK	3240953	20
WP-GR HF IP66 M20 BK	3240954	20
WP-GR HF IP66 M25 BK	3240955	10
WP-GR HF IP66 M32 BK	3240956	10
WP-GR HF IP66 M40 BK	3240957	10

Accessories

see page 568 onwards

Technical data

PA
Free from silicone, halogen, and cadmium
IP68/IP69K
Pg
V0
-40 ... 115

Ordering data

Type	Order No.	Pcs. / Pkt.
WP-GR HF IP69K PG7 BK	3240930	20
WP-GR HF IP69K PG9 BK	3240931	20
WP-GR HF IP69K PG11 BK	3240932	20
WP-GR HF IP69K PG16 BK	3240933	10
WP-GR HF IP69K PG21 BK	3240934	10
WP-GR HF IP69K PG29 BK	3240935	10
WP-GR HF IP69K PG36 BK	3240936	10

Accessories

see page 568 onwards

Technical data

PA
Free from silicone, halogen, and cadmium
IP68/IP69K
metric
V0
-40 ... 115

Ordering data

Type	Order No.	Pcs. / Pkt.
WP-GR HF IP69K M12 BK	3240938	20
WP-GR HF IP69K M16 BK	3240939	20
WP-GR HF IP69K M20 BK	3240940	20
WP-GR HF IP69K M25 BK	3240941	10
WP-GR HF IP69K M32 BK	3240942	10
WP-GR HF IP69K M40 BK	3240943	10

Accessories

see page 568 onwards

Installation and mounting material - CABINET add-on

Cable routing, cable protection, cable bundling

Protective hoses with PVC- or PU-coated spirals



The **WP-SPIRAL PVC C ...** plastic protective hoses with soft PVC-coated spring wire helix offer optimum protection, thanks to the following properties:

- Highly flexible
- Can be stretched and compressed
- Internal corrosion protection
- Largely resistant to acids and solvents
- Free from silicone and cadmium
- Airtight and liquid tight

The **WP-SPIRAL PU C ...** plastic protective hoses with fixed, PU-coated spring wire helix offer the following:

- Very tough and resistant to abrasion
- Highly flexible
- Resistant to germs
- Airtight and liquid tight
- Resistant to oil and grease
- Gasoline-resistant
- Largely resistant to acids and solvents
- Free from silicone, halogen, and cadmium
- Flame-protected
- Behaves extremely well at low temperatures
- V2 according to UL 94
- Suitable as a suction tube

The covered protective hoses are particularly suitable for the following fields of application:

- Machine and system engineering
- Vehicle construction
- Use in guide chains
- Shipbuilding
- Automation
- Electrical systems

Notes:

Pcs. / Pkt. specifies the protective hose length in [m].



**Protective hose, PVC coated spiral,
outside diameter of 10 - 45 mm**



Technical data

General data

Material	PVC
Components	Free from silicone and cadmium
Inflammability class according to UL 94	-
Temperature range	[°C] -25 ... 80

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Protective hose, PVC-coated spiral				
Diameter [mm] Outside/inside	Bending radius [mm] static			
10 / 7	8	gray	WP-SPIRAL PVC C 10	3240849
14 / 10	10	gray	WP-SPIRAL PVC C 14	3240850
17 / 13	13	gray	WP-SPIRAL PVC C 17	3240851
21 / 16	17	gray	WP-SPIRAL PVC C 21	3240852
27 / 22	20	gray	WP-SPIRAL PVC C 27	3240853
36 / 29	24	gray	WP-SPIRAL PVC C 36	3240854
45 / 38	36	gray	WP-SPIRAL PVC C 45	3240855
Protective hose, PU-coated spiral				
Diameter [mm] Outside/inside	Bending radius [mm] static			
10 / 7	8	blue		
14 / 10	10	blue		
17 / 13	13	blue		
21 / 16	17	blue		
27 / 22	20	blue		
36 / 29	24	blue		
45 / 38	36	blue		
End sleeves				
Diameter [mm] Outside/inside	Cable diameter [mm]			
10 / 7	6	gray		
14 / 10	9	gray		
17 / 13	11.5	gray		
21 / 16	14.5	gray		
27 / 21	19.5	gray		
36 / 29	26.5	gray		
45 / 38	36	gray		



**Protective hose, PU coated spiral,
outside diameter of 10 - 45 mm**



**End sleeve for protective hose
diameter of 10 - 45 mm**



Technical data

PU
Free from silicone, halogen, and cadmium
V2
-40 ... 80

Technical data

PP
Halogen-free
HB
-10 ... 110

Ordering data

Type	Order No.	Pcs. / Pkt.
WP-SPIRAL PU C HF 10	3240856	10
WP-SPIRAL PU C HF 14	3240857	10
WP-SPIRAL PU C HF 17	3240858	10
WP-SPIRAL PU C HF 21	3240859	10
WP-SPIRAL PU C HF 27	3240860	10
WP-SPIRAL PU C HF 36	3240861	10
WP-SPIRAL PU C HF 45	3240862	10

Ordering data

Type	Order No.	Pcs. / Pkt.
WP-SC HF 10	3241016	50
WP-SC HF 14	3241017	50
WP-SC HF 17	3241018	50
WP-SC HF 21	3241019	50
WP-SC HF 27	3241020	25
WP-SC HF 36	3241021	25
WP-SC HF 45	3241022	20

Installation and mounting material - CABINET add-on

Cable routing, cable protection, cable bundling

Screw connections, for protective hoses with coated spirals



The polypropylene screw connections with a straight design are available with or without a rotatable connecting thread.

- Easy, tool-free mounting
- High resistance to dust and fluids
- Vibration resistance and high tensile strength, thanks to hose screw-out locking

Rotatable screw connections

- The protective hose can still be rotated after panel mounting, thanks to the special screw connections



IP65 degree of protection, Pg7 - Pg36 thread

General data

Material	PP
Degree of protection	IP65
Thread type	Pg
Components	Halogen-free
Inflammability class according to UL 94	HB
Temperature range	-10 ... 110 °C

Technical data

Description	Color	Type	Order No.	Pcs. / Pkt.
Screw connection, IP65, straight, with Pg thread				
Outside diameter of protective hose [mm]	Cable diameter [mm]			
10	6	gray	WP-G PP HF PG7	3240988
14	9	gray	WP-G PP HF PG9	3240989
17	11	gray	WP-G PP HF PG11	3240990
21	14.5	gray	WP-G PP HF PG16	3240991
27	19.5	gray	WP-G PP HF PG21	3240992
36	27	gray	WP-G PP HF PG29	3240993
45	36	gray	WP-G PP HF PG36	3240994
Screw connection, IP65, straight, with metric thread				
Outside diameter of protective hose [mm]	Cable diameter [mm]			
10	6	gray		
14	8	gray		
17	11	gray		
21	15	gray		
27	20	gray		
36	27	gray		
45	35	gray		
Screw connection, IP54, rotatable, with Pg thread				
Outside diameter of protective hose [mm]	Cable diameter [mm]			
10	5.5	gray		
14	9.5	gray		
17	11.5	gray		
21	14.5	gray		
27	19.5	gray		
36	27	gray		
45	35.5	gray		
Screw connection, IP54, rotatable, with metric thread				
Outside diameter of protective hose [mm]	Cable diameter [mm]			
10	5.5	gray		
14	9.5	gray		
17	11.5	gray		
21	14.5	gray		
27	19.5	gray		
36	27	gray		

Accessories

Counter nuts and seals

see page 568 onwards





IP65 degree of protection, M10 - M40 metric thread



IP54 degree of protection, Pg7 - Pg36 thread, rotatable



IP54 degree of protection, M12 - M40 metric thread, rotatable



Technical data		
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PP
IP65
metric
Halogen-free
HB
-10 ... 110

Technical data		
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PP
IP54
Pg
Halogen-free
HB
-10 ... 110

Technical data		
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PP
IP54
metric
Halogen-free
HB
-10 ... 110

Ordering data		
Type	Order No.	Pcs. / Pkt.

Ordering data		
Type	Order No.	Pcs. / Pkt.

Ordering data		
Type	Order No.	Pcs. / Pkt.

WP-G PP HF M10	3240995	10
WP-G PP HF M12	3240996	10
WP-G PP HF M16	3240997	10
WP-G PP HF M20	3240998	10
WP-G PP HF M25	3240999	10
WP-G PP HF M32	3241000	2
WP-G PP HF M40	3241001	2

WP-GT PP HF PG7	3241002	10
WP-GT PP HF PG9	3241003	10
WP-GT PP HF PG11	3241004	10
WP-GT PP HF PG16	3241005	10
WP-GT PP HF PG21	3241006	10
WP-GT PP HF PG29	3241007	2
WP-GT PP HF PG36	3241008	2

WP-GT PP HF M12	3241010	10
WP-GT PP HF M16	3241011	10
WP-GT PP HF M20	3241012	10
WP-GT PP HF M25	3241013	10
WP-GT PP HF M32	3241014	10
WP-GT PP HF M40	3241015	2

Accessories		
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see page 568 onwards

Accessories		
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see page 568 onwards

Accessories		
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see page 568 onwards

Installation and mounting material - CABINET add-on

Cable routing, cable protection, cable bundling

Protective hoses made of steel or stainless steel

Notes:

Pcs. / Pkt. specifies the protective hose length in [m].



The metal protective hoses made of galvanized steel or stainless steel offer optimum protection and have a wide range of uses, thanks to the following properties:

- Interlocked, helix-wound profile
 - Highly flexible
 - High tensile strength and resistance to lateral pressure
- These properties make the products suitable for use in the following areas:
- Machine and system engineering
 - Vehicle construction
 - Ex area according to EN 60079-14 and EN 61241-14
 - Shipbuilding
 - Rail vehicles
 - Automation
 - Electrical systems



**Stainless steel protective hose,
outside diameter of 10 - 45 mm**

Technical data					
General data					
Material	Steel, galvanized	Type	Ordering data		
Temperature range	[°C]		Description	Color	Pcs. / Pkt.
Protective hose		Protective hose			
Diameter [mm] Outside/inside	Bending radius [mm] static	Diameter [mm] Outside/inside	Bending radius [mm] static	Type	Order No.
10 / 8	28	10 / 8	22	WP-STEEL ZC 10	3240697
14 / 11	34	14 / 11	25	WP-STEEL ZC 14	3240865
17 / 14	40	17 / 14	40	WP-STEEL ZC 17	3240698
21 / 18	50	21 / 18	50	WP-STEEL ZC 21	3240699
27 / 23	63	27 / 23	63	WP-STEEL ZC 27	3240866
36 / 31	85	36 / 31	85	WP-STEEL ZC 36	3240700
45 / 40	100	45 / 40	100	WP-STEEL ZC 45	3240701
End sleeves		End sleeves			
Outside diameter of hose [mm]	Cable diameter [mm]	Outside diameter of hose [mm]	Cable diameter [mm]	Type	Order No.
10	6.5	10	6.5	Brass	
14	10	14	10	Brass	
17	12.5	17	12.5	Brass	
21	16.5	21	16.5	Brass	
27	21.5	27	21.5	Brass	
36	29.5	36	29.5	Brass	
45	38	45	38	Brass	



**Stainless steel protective hose (V2A),
outside diameter of 10 - 45 mm**



**End sleeve for protective hose
diameter of 10 - 45 mm**

Technical data			Technical data		
Stainless steel 1.4301/AISI 304 -200 ... 600			Brass -40 ... 250		
Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
WP-STEEL S 10	3240686	10	WP-SC BRASS 10	3241065	50
WP-STEEL S 14	3240687	10	WP-SC BRASS 14	3241066	50
WP-STEEL S 17	3240663	10	WP-SC BRASS 17	3241067	50
WP-STEEL S 21	3240688	10	WP-SC BRASS 21	3241068	50
WP-STEEL S 27	3240664	10	WP-SC BRASS 27	3241069	25
WP-STEEL S 36	3240689	10	WP-SC BRASS 36	3241070	25
WP-STEEL S 45	3240690	10	WP-SC BRASS 45	3241071	20

Installation and mounting material - CABINET add-on

Cable routing, cable protection, cable bundling

Screw connections, for protective hoses made of steel or stainless steel

Notes:

Inner sleeves and seals are supplied as standard.



The screw connections are available with or without a rotatable connecting thread and have the following properties:

- Easy mounting of protective hose without tools
- Vibration resistance and high tensile strength, thanks to hose screw-out locking
- Integrated inner sleeve and rotation lock for hose

Rotatable screw connections

- The protective hose can still be rotated after panel mounting, thanks to the special screw connections



IP40 degree of protection, Pg7 - Pg36 thread



Technical data

General data

Material	Brass
Degree of protection	IP40
Thread type	Pg
Temperature range	[°C]

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Screw connection, IP40, with Pg thread				
Outside diameter of protective hose [mm]	Cable diameter [mm]			
10	6.5	Brass	WP-G BRASS IP40 PG7	3241037
14	10	Brass	WP-G BRASS IP40 PG9	3241038
17	12.5	Brass	WP-G BRASS IP40 PG11	3241039
21	16	Brass	WP-G BRASS IP40 PG16	3241040
27	21.5	Brass	WP-G BRASS IP40 PG21	3241041
36	29	Brass	WP-G BRASS IP40 PG29	3241042
45	38	Brass	WP-G BRASS IP40 PG36	3241043
Screw connection, IP40, with metric thread				
Outside diameter of protective hose [mm]	Cable diameter [mm]			
10	6.5	Brass		
14	10	Brass		
17	12.5	Brass		
21	16	Brass		
27	21.5	Brass		
36	27.5	Brass		
45	35	Brass		
Screw connection, IP40, rotatable, with Pg thread				
Outside diameter of protective hose [mm]	Cable diameter [mm]			
10	6	Brass		
14	9	Brass		
17	12	Brass		
21	15.5	Brass		
27	20.5	Brass		
36	27.5	Brass		
45	36.5	Brass		
Screw connection, IP40, rotatable, with metric thread				
Outside diameter of protective hose [mm]	Cable diameter [mm]			
10	6	Brass		
14	9	Brass		
17	12	Brass		
21	15.5	Brass		
27	20.5	Brass		
36	27.5	Brass		
45	35	Brass		





IP40 degree of protection,
M10 - M40 metric thread



IP40 degree of protection,
Pg7 - Pg36 thread, rotatable



IP40 degree of protection,
M10 - M40 metric thread, rotatable



Technical data		
Brass		
IP40		
metric -40 ... 125		

Technical data		
Brass		
IP40		
Pg -40 ... 250		

Technical data		
Brass		
IP40		
metric -40 ... 250		

Ordering data		
Type	Order No.	Pcs. / Pkt.
WP-G BRASS IP40 M10	3241044	10
WP-G BRASS IP40 M12	3241045	10
WP-G BRASS IP40 M16	3241046	10
WP-G BRASS IP40 M20	3241047	10
WP-G BRASS IP40 M25	3241048	10
WP-G BRASS IP40 M32	3241049	2
WP-G BRASS IP40 M40	3241050	2

Ordering data		
Type	Order No.	Pcs. / Pkt.
WP-GT BRASS PG7	3241023	10
WP-GT BRASS PG9	3241024	10
WP-GT BRASS PG11	3241025	10
WP-GT BRASS PG16	3241026	10
WP-GT BRASS PG21	3241027	10
WP-GT BRASS PG29	3241028	2
WP-GT BRASS PG36	3241029	2

Ordering data		
Type	Order No.	Pcs. / Pkt.
WP-GT BRASS M10	3241030	10
WP-GT BRASS M12	3241031	10
WP-GT BRASS M16	3241032	10
WP-GT BRASS M20	3241033	10
WP-GT BRASS M25	3241034	10
WP-GT BRASS M32	3241035	2
WP-GT BRASS M40	3241036	2

Installation and mounting material - CABINET add-on

Cable routing, cable protection, cable bundling

Protective hoses made of steel with PVC coating and screw connections

- Optimum protection
- Numerous possible applications
- Tool-free assembly of screw connection and protective hose
- Screw connection for high resistance

Notes:

Pcs. / Pkt. specifies the protective hose length in [m].

Inner sleeves and seals are supplied as standard.



**Stainless steel protective hose (V2A),
PVC-coated, outside diameter of 10 - 45 mm**



**IP65 degree of protection, Pg7 - Pg36 thread
and M10 - M40 metric thread**

General data

Material	Steel, galvanized/PVC
Degree of protection	-
Thread type	Brass
Temperature range	-25 ... 80 [°C]

Technical data

Technical data

Protective hose, in galvanized steel, PVC-coated

Diameter [mm] Outside/inside	Bending radius [mm] static	Type	Order No.	Pcs. / Pkt.
10 / 7	95	black	WP-STEEL PVC C 10	3240867
14 / 10	105	black	WP-STEEL PVC C 14	3240868
17 / 13	115	black	WP-STEEL PVC C 17	3240869
21 / 17	110	black	WP-STEEL PVC C 21	3240870
27 / 22	135	black	WP-STEEL PVC C 27	3240871
36 / 29	145	black	WP-STEEL PVC C 36	3240872
45 / 38	215	black	WP-STEEL PVC C 45	3240873

End sleeves, in brass

Outside diameter of hose [mm]	Cable diameter [mm]	Type	Order No.	Pcs. / Pkt.
10	6	Brass	WP-SC BRASS WP PVC 10	3241072
14	8.5	Brass	WP-SC BRASS WP PVC 14	3241073
17	11.5	Brass	WP-SC BRASS WP PVC 17	3241074
21	15.5	Brass	WP-SC BRASS WP PVC 21	3241075
27	20.5	Brass	WP-SC BRASS WP PVC 27	3241076
36	27.5	Brass	WP-SC BRASS WP PVC 36	3241077
45	36.5	Brass	WP-SC BRASS WP PVC 45	3241078

Screw connection, IP65, with Pg thread

Outside diameter of protective hose [mm]	Cable diameter [mm]	Type	Order No.	Pcs. / Pkt.
10	6	Brass	WP-G BRASS IP65 PG7	3241051
14	8.5	Brass	WP-G BRASS IP65 PG9	3241052
17	11.5	Brass	WP-G BRASS IP65 PG11	3241053
21	15.5	Brass	WP-G BRASS IP65 PG16	3241054
27	20.5	Brass	WP-G BRASS IP65 PG21	3241055
36	27.5	Brass	WP-G BRASS IP65 PG29	3241056
45	35	Brass	WP-G BRASS IP65 PG36	3241057

Screw connection, IP65, with metric thread

Outside diameter of protective hose [mm]	Cable diameter [mm]	Type	Order No.	Pcs. / Pkt.
10	6	Brass	WP-G BRASS IP65 M10	3241058
14	8.5	Brass	WP-G BRASS IP65 M12	3241059
17	11.5	Brass	WP-G BRASS IP65 M16	3241060
21	15.5	Brass	WP-G BRASS IP65 M20	3241061
27	20.5	Brass	WP-G BRASS IP65 M25	3241062
36	27.5	Brass	WP-G BRASS IP65 M32	3241063
45	35	Brass	WP-G BRASS IP65 M40	3241064

Spiral hoses**Notes:**

Pcs. / Pkt. indicates the spiral hose length in [m].



Easy bundling and routing of cables and conductors

- Fast and easy to use
- Can be retrofitted
- The spiral structure means that individual conductors and cables can be led out at any point
- Offer protection under light mechanical strain



**Spiral hose,
for bundle diameters of 2 mm - 150 mm**

General data

Material	PE
Components	free from silicone and halogen
Inflammability class according to UL 94	HB
Temperature range	-50 ... 85 [°C]

Technical data

PE
free from silicone and halogen
HB
-50 ... 85

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Spiral hose, for bundle diameters				
2 - 15 mm	transparent	WG-S HF 15	3241109	50
4 - 20 mm	transparent	WG-S HF 20	3241111	25
7 - 40 mm	transparent	WG-S HF 40	3241113	25
12 - 50 mm	transparent	WG-S HF 50	3241115	25
13 - 70 mm	transparent	WG-S HF 70	3241117	25
15 - 80 mm	transparent	WG-S HF 80	3241119	20
20 - 120 mm	transparent	WG-S HF 120	3241121	25
25 - 150 mm	transparent	WG-S HF 150	3241123	20
Spiral hose, for bundle diameters				
2 - 15 mm	black	WG-S HF 15 BK	3241110	50
4 - 20 mm	black	WG-S HF 20 BK	3241112	25
7 - 40 mm	black	WG-S HF 40 BK	3241114	25
12 - 50 mm	black	WG-S HF 50 BK	3241116	25
13 - 70 mm	black	WG-S HF 70 BK	3241118	25
15 - 80 mm	black	WG-S HF 80 BK	3241120	20
20 - 120 mm	black	WG-S HF 120 BK	3241122	25
25 - 150 mm	black	WG-S HF 150 BK	3241124	20

Accessories

Electrician's scissors , high cutting performance thanks to micro-serrated cutting area, suitable for copper, aluminum, Kevlar fibers, and plastic, two-component non-slip soft-grip handles, ergonomic design, adjustable screw joint	
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CUTFOX-ES	1212621	1
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Cable routing, cable protection, cable bundling

Accessories for protective hose mounting

The WP-BASE C... protective hose holders with cover can be attached using a screw.

- An integrated rib fastening also helps to relieve the strain on the protective hose
- The base of the holder is designed so that it can even be pushed onto a C DIN rail
- The engagement pins enable hose holders of different sizes to be arranged alongside each other



Protective hose with cover

WP-BASE HF... protective hose clips:

- Galvanized steel locking latch with rubber profile
- Screw mounting

WP-BASE ... fixing bracket:

- With two mounting holes according to DIN 46320
- Protective hose feed-through can be attached to the side of the panel
- Pg or metric protective hose screw connections can be mounted on a bracket

General data		Technical data			
Material	PA	Ordering data			
Description	Color	Type	Order No.	Pcs. / Pkt.	
Protective hose holder with cover, screwable, made of plastic					
Outside diameter of protective hose [mm]	Hole diameter [mm]				
10	10	black	WP-BASE C PA HF 10,0 BK	3240958	50
13	13	black	WP-BASE C PA HF 13,0 BK	3240959	50
15.8	15.8	black	WP-BASE C PA HF 15,8 BK	3240960	50
21.2	21.2	black	WP-BASE C PA HF 21,2 BK	3240961	50
28.5	28.2	black	WP-BASE C PA HF 28,2 BK	3240962	25
34.5	34.5	black	WP-BASE C PA HF 34,5 BK	3240963	25
42.5	42.5	black	WP-BASE C PA HF 42,5 BK	3240964	25
Protective hose clip , screwable					
Outside diameter of protective hose [mm]	Hole diameter [mm]				
10	10	silver/black			
13	13	silver/black			
14	14	silver/black			
15.8	15.8	silver/black			
17	17	silver/black			
22	22	silver/black			
29	29	silver/black			
36	37	silver/black			
45	45	silver/black			
Fixing bracket , screwable					
Screw connection	Hole diameter [mm]				
Pg16	23	silver			
Pg21	29	silver			
Pg29	37.5	silver			
Pg36	47.5	silver			
Fixing bracket , screwable					
Screw connection	Hole diameter [mm]				
M16	17	silver			
M20	21	silver			
M25	26	silver			
M32	33	silver			
M40	43	silver			



Protective hose clip

Fixing bracket, screw version,
for Pg screw connectionFixing bracket, screw version,
for metric
screw connection

Technical data			Technical data			Technical data		
Steel, galvanized			Steel, galvanized			Steel, galvanized		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
WP-BASE HF 9-10	3240965	50	WP-BASE A PG16	3241079	25	WP-BASE A M16	3241083	25
WP-BASE HF 13	3240966	50	WP-BASE A PG21	3241080	25	WP-BASE A M20	3241084	25
WP-BASE HF 14	3240967	50	WP-BASE A PG29	3241081	25	WP-BASE A M25	3241085	25
WP-BASE HF 15,8	3240968	50	WP-BASE A PG36	3241082	25	WP-BASE A M32	3241086	25
WP-BASE HF 17	3240969	50				WP-BASE A M40	3241087	25
WP-BASE HF 22	3240970	50						
WP-BASE HF 29	3240971	50						
WP-BASE HF 37	3240972	50						
WP-BASE HF 45	3240973	25						

Accessories for protective hose mounting

N



Counter nut, M12 - M40, plastic

WP-CN ...

The counter nuts are used to lock protective hose screw connections in the case of bore holes without a thread.

- Counter nuts made of brass or plastic
- The fiberglass-reinforced polyamide ensures a high degree of mechanical stability
- Metric thread according to EN 50262, making the counter nut suitable for universal use

General data		Technical data		
Material	Polyamide fiberglass reinforced	Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
Counter nut, plastic, for protective hose screw connections with metric thread				
for M12	gray	WP-CN PA M12	3241132	100
for M16	gray	WP-CN PA M16	3241133	100
for M20	gray	WP-CN PA M20	3241134	100
for M25	gray	WP-CN PA M25	3241135	100
for M32	gray	WP-CN PA M32	3241136	100
for M40	gray	WP-CN PA M40	3241137	50
Counter nut, plastic, for protective hose screw connections with Pg thread				
for Pg7	gray			
for Pg9	gray			
for Pg11	gray			
for Pg16	gray			
for Pg21	gray			
for Pg29	gray			
for Pg36	gray			
Counter nut, nickel-plated brass, for protective hose screw connections with metric thread				
for M10	silver			
for M12	silver			
for M16	silver			
for M20	silver			
for M25	silver			
for M32	silver			
for M40	silver			
Counter nut, nickel-plated brass, for protective hose screw connections with Pg thread				
for Pg7	silver			
for Pg9	silver			
for Pg11	silver			
for Pg16	silver			
for Pg21	silver			
for Pg29	silver			
for Pg36	silver			

N

N

N



Counter nut, Pg7 - Pg36, plastic



Counter nut, M10 - M40, brass



Counter nut, Pg7 - Pg36, brass

Technical data			Technical data			Technical data		
Polyamide fiberglass reinforced			Nickel-plated brass			Nickel-plated brass		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
WP-CN PA PG7	3241138	100	WP-CN BRASS M10	3241145	100	WP-CN BRASS PG7	3241152	100
WP-CN PA PG9	3241139	100	WP-CN BRASS M12	3241146	100	WP-CN BRASS PG9	3241153	100
WP-CN PA PG11	3241140	100	WP-CN BRASS M16	3241147	100	WP-CN BRASS PG11	3241154	100
WP-CN PA PG16	3241141	100	WP-CN BRASS M20	3241148	100	WP-CN BRASS PG16	3241155	100
WP-CN PA PG21	3241142	100	WP-CN BRASS M25	3241149	100	WP-CN BRASS PG21	3241156	100
WP-CN PA PG29	3241143	100	WP-CN BRASS M32	3241150	100	WP-CN BRASS PG29	3241157	100
WP-CN PA PG36	3241144	50	WP-CN BRASS M40	3241151	50	WP-CN BRASS PG36	3241158	50

Cable routing, cable protection, cable bundling

Accessories for protective hose mounting

N



Flat gasket made from Perbunan

WP-FS ...

The Perbunan flat sealing rings are used to seal protective hose screw connections on uneven surfaces. They are inserted between the hose screw connection and the surface, thereby achieving degrees of protection up to IP68.

WP-FS HF...

The Centellen flat sealing rings also provide an optimum seal on uneven surfaces. As well as having IP68 protection and high mechanical stability, the sealing rings are also UV resistant and halogen-free. This enables them to be used outdoors. Properties:
– Resistant to oil, seal against dust and water, UV resistant, halogen-free, high mechanical stability

WP-OR...

The properties of the Perbunan O-rings, such as their resistance to oil and seal against water and dust, mean that they can be used in a wide range of applications.

General data		Technical data			
Material	Perbunan	Ordering data			
Description	Color	Type	Order No.	Pcs. / Pkt.	
Flat gasket, Perbunan , for protective hose screw connections with metric thread					
for M10	black	WP-FS IP68 M10	3241159	50	
for M12	black	WP-FS IP68 M12	3241160	50	
for M16	black	WP-FS IP68 M16	3241161	50	
for M20	black	WP-FS IP68 M20	3241162	50	
for M25	black	WP-FS IP68 M25	3241163	50	
for M32	black	WP-FS IP68 M32	3241164	25	
for M40	black	WP-FS IP68 M40	3241165	25	
Flat gasket, Perbunan , for protective hose screw connections with Pg thread					
for Pg7	black	WP-FS IP68 PG7	3241166	50	
for Pg9	black	WP-FS IP68 PG9	3241167	50	
for Pg11	black	WP-FS IP68 PG11	3241168	50	
for Pg16	black	WP-FS IP68 PG16	3241169	50	
for Pg21	black	WP-FS IP68 PG21	3241170	25	
for Pg29	black	WP-FS IP68 PG29	3241171	25	
for Pg36	black	WP-FS IP68 PG36	3241172	25	
Flat gasket, Centellen , for protective hose screw connections with metric thread					
for M10	green				
for M12	green				
for M16	green				
for M20	green				
for M25	green				
for M32	green				
for M40	green				
Flat gasket, Centellen , for protective hose screw connections with Pg thread					
for Pg7	green				
for Pg9	green				
for Pg11	green				
for Pg16	green				
for Pg21	green				
for Pg29	green				
for Pg36	green				
O-ring, Perbunan , for protective hose screw connections with metric thread					
for M10	black				
for M12	black				
for M16	black				
for M20	black				
for M25	black				
for M32	black				
for M40	black				
O-ring, Perbunan , for protective hose screw connections with Pg thread					
for Pg7	black				
for Pg9	black				
for Pg11	black				
for Pg16	black				
for Pg21	black				
for Pg29	black				
for Pg36	black				

N**N**

Flat gasket made from Centellen



O-ring made from Perbunan

Technical data			Technical data		
Centellen			Perbunan		
Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
WP-FS HF IP68 M10	3241173	50			
WP-FS HF IP68 M12	3241174	50			
WP-FS HF IP68 M16	3241175	50			
WP-FS HF IP68 M20	3241176	50			
WP-FS HF IP68 M25	3241177	50			
WP-FS HF IP68 M32	3241178	25			
WP-FS HF IP68 M40	3241179	25			
WP-FS HF IP68 PG7	3241180	50			
WP-FS HF IP68 PG9	3241181	50			
WP-FS HF IP68 PG11	3241182	50			
WP-FS HF IP68 PG16	3241183	50			
WP-FS HF IP68 PG21	3241184	25			
WP-FS HF IP68 PG29	3241185	25			
WP-FS HF IP68 PG36	3241186	25			
			WP-OR M10	3241187	50
			WP-OR M12	3241188	50
			WP-OR M16	3241189	50
			WP-OR M20	3241190	50
			WP-OR M25	3241191	50
			WP-OR M32	3241192	25
			WP-OR M40	3241193	25
			WP-OR PG7	3241194	50
			WP-OR PG9	3241195	50
			WP-OR PG11	3241196	50
			WP-OR PG16	3241197	50
			WP-OR PG21	3241198	25
			WP-OR PG29	3241199	25
			WP-OR PG36	3241200	25

Installation and mounting material - CABINET add-on

Cable routing, cable protection, cable bundling

Plastic cable marker for insert labels, for assembly with cable binders

Notes:

For corresponding cable binders, see page 574 onwards.



- Plastic cable markers for marking and bundling multiple conductors and cables indoors
- The printed insert label is protected from dirt by the sealing cap
- Labeling service: Phoenix Contact can custom-label all insert labels for plastic cable markers in accordance with your requirements



For insert labels measuring 29 x 8 mm

General data

Material	Polyethylene
Temperature range	-40 ... 80
Components	free from silicone and halogen

Technical data

Type	Order No.	Pcs. / Pkt.
KMK	1005208	100
transparent		
Plastic cable markers for insert labels, with cable binders with a pointed end, can be labeled with ESL..., EMT... or US-EMP... insert labels, diameter: 16 ... 35 mm, lettering field size: 40 x 17 mm		
transparent		
Cable and conductor markers for insert labels, can be labeled with EST or ESL, diameter of 1 - 12 mm, lettering field size: 24 x 4 mm		
white		
Cable and conductor markers for labels, lettering field size: 20 x 8 mm		
white		
Accessories		
Insert strips for laser printers, DIN A4, perforated		
Lettering field size: 29 x 8 mm, 1 sheet = 174 labels	ESL 29X8	0808257
Lettering field size: 40 x 17 mm, 1 sheet = 56 labels		10
Lettering field size: 24 x 4 mm, 1 sheet = 488 labels		
Insert labels for thermal transfer printers		
Lettering field size: 29 x 8 mm, 5400 labels p. roll	EMT (29X8)R	0817277
Lettering field size: 40 x 17 mm, 2300 labels p. roll		1
Lettering field size: 24 x 4 mm, 5000 labels p. roll		
UniSheet, 0.5 mm thick		
48-section, lettering field size: 29 x 8 mm	US-EMP (29X8)	0829436
16-section, lettering field size: 40 x 17 mm		10
Textile label, lettering field size: 20 x 8 mm		
2500 labels p. roll		
2500 labels p. roll		





For insert labels measuring 40 x 17 mm



For insert labels, 12 mm conductor diameter

For adhesive labels,
conductor diameter of up to 20 mm

Technical data			Technical data			Technical data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
KMK 3	1005211	50	LM	1004377	100	KME	0807083	50
ESL 40X17	0808095	10	ESL 24X 4	0808231	10	EMLC (20X8)R	0815680	1
EMT (40X17)R	0817293	1	EMT (24X4)R	0816265	1	EMLC (20X8)R	0816786	1
US-EMP (40X17)	0829437	10						

Installation and mounting material - CABINET add-on

Cable routing, cable protection, cable bundling

Plastic cable binders



- For bundling and fastening conductors and cables
- Can be used indoors and outdoors even under unfavorable industrial conditions
- With the UNIFOX-CT ... cable binder tool, the cable binders can be easily tightened and cut off flush in one step
- Cable binders are easy to use, thanks to their optimized geometries
- Optimum head shape for high tensile forces
- Temperature range: briefly up to 110°C
- Comprehensive approvals

Designation example: **WT-HF 2,5X98**

Cable binder width: 2.5 mm

Cable binder length: 98 mm



Cable tie length of 98 - 1000 mm



General data

Material	PA 6.6
Components	free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 85 [°C]

Technical data

PA 6.6
free from silicone and halogen
V2
-40 ... 85 [°C]

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Cable binder, maximum bundle Ø [mm]/minimum tensile strength [N]				
21 / 80	transparent	WT-HF 2,5X98	3240732	100
40 / 80	transparent	WT-HF 2,6X160	3240736	100
52 / 80	transparent	WT-HF 2,6X200	3240740	100
35 / 130	transparent	WT-HF 3,6X140	3240744	100
50 / 130	transparent	WT-HF 3,6X200	3240748	100
80 / 130	transparent	WT-HF 3,6X290	3240752	100
40 / 220	transparent	WT-HF 4,5X160	3240756	100
50 / 220	transparent	WT-HF 4,5X200	3240760	100
79 / 220	transparent	WT-HF 4,5X290	3240764	100
100 / 220	transparent	WT-HF 4,5X360	3240768	100
115 / 220	transparent	WT-HF 4,5X430	3240770	100
80 / 540	transparent	WT-HF 7,8X300	3240772	100
100 / 540	transparent	WT-HF 7,8X365	3240774	100
158 / 540	transparent	WT-HF 7,8X540	3240719	100
233 / 700	transparent	WT-HF 9X780	3240778	100
143 / 1080	transparent	WT-HF 12,6X850	3240730	50
302 / 1080	transparent	WT-HF 12,6X1000	3240728	50
Cable binder, large pack, maximum bundle Ø [mm]/minimum tensile strength [N]				
21 / 80	transparent	WT-HF 2,5X98-L	3240735	1000
40 / 80	transparent	WT-HF 2,6X160-L	3240739	1000
52 / 80	transparent	WT-HF 2,6X200-L	3240743	1000
35 / 130	transparent	WT-HF 3,6X140-L	3240747	1000
50 / 130	transparent	WT-HF 3,6X200-L	3240751	1000
80 / 130	transparent	WT-HF 3,6X290-L	3240755	500
40 / 220	transparent	WT-HF 4,5X160-L	3240759	1000
50 / 220	transparent	WT-HF 4,5X200-L	3240763	1000

Accessories

Cable binder pliers, for plastic cable binders with a width of 2.2 - 4.8 mm, for a material thickness of up to 1.6 mm

Professional cable binder pliers, for plastic cable binders with a width of 2.2 - 4.8 mm, up to 1.6 mm material thickness

Ergonomically designed grip with comfortable tension force adjustment

UNIFOX-CT 4,8

1212475

1

UNIFOX-CT 4,8P

1212609

1



Plastic cable binders



Cable tie length of 98 - 1000 mm



- The black cable binders are UV stabilized by adding carbon black and are suitable for use in outdoor systems according to ISO 4895 (QUV-B 150 hours) for up to three years
- Temperature range: briefly up to 110°C
- Comprehensive approvals

General data

Material	PA 6.6
Components	free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 85 [°C]

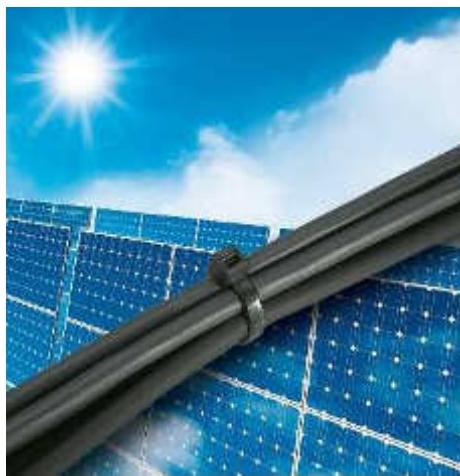
Technical data

Description		Color	Type	Order No.	Pcs. / Pkt.
Cable binder, maximum bundle Ø [mm]/minimum tensile strength [N]					
21 / 80	black	WT-HF 2,5X98 BK		3240733	100
40 / 80	black	WT-HF 2,6X160 BK		3240737	100
52 / 80	black	WT-HF 2,6X200 BK		3240741	100
35 / 130	black	WT-HF 3,6X140 BK		3240745	100
50 / 130	black	WT-HF 3,6X200 BK		3240749	100
80 / 130	black	WT-HF 3,6X290 BK		3240753	100
40 / 220	black	WT-HF 4,5X160 BK		3240757	100
50 / 220	black	WT-HF 4,5X200 BK		3240761	100
79 / 220	black	WT-HF 4,5X290 BK		3240765	100
100 / 220	black	WT-HF 4,5X360 BK		3240769	100
115 / 220	black	WT-HF 4,5X430 BK		3240771	100
80 / 540	black	WT-HF 7,8X300 BK		3240773	100
100 / 540	black	WT-HF 7,8X365 BK		3240775	100
158 / 540	black	WT-HF 7,8X540 BK		3240721	100
233 / 700	black	WT-HF 9X780 BK		3240779	100
143 / 1080	black	WT-HF 12,6X850 BK		3240731	50
302 / 1080	black	WT-HF 12,6X1000 BK		3240729	50
Cable binder, large pack, maximum bundle Ø [mm]/minimum tensile strength [N]					
21 / 80	black	WT-HF 2,5X98 BK-L		3240734	1000
40 / 80	black	WT-HF 2,6X160 BK-L		3240738	1000
52 / 80	black	WT-HF 2,6X200 BK-L		3240742	1000
35 / 130	black	WT-HF 3,6X140 BK-L		3240746	1000
50 / 130	black	WT-HF 3,6X200 BK-L		3240750	1000
80 / 130	black	WT-HF 3,6X290 BK-L		3240754	500
40 / 220	black	WT-HF 4,5X160 BK-L		3240758	1000
50 / 220	black	WT-HF 4,5X200 BK-L		3240762	1000
Accessories					
Cable binder pliers , for plastic cable binders with a width of 2.2 - 4.8 mm, for a material thickness of up to 1.6 mm			UNIFOX-CT 4,8	1212475	1
Professional cable binder pliers , for plastic cable binders with a width of 2.2 - 4.8 mm, up to 1.6 mm material thickness			UNIFOX-CT 4,8P	1212609	1
Ergonomically designed grip with comfortable tension force adjustment					

Installation and mounting material - CABINET add-on

Cable routing, cable protection, cable bundling

Cable binders for outdoor use



The WT-UV HF ... cable binders are specially designed for outdoor use and offer the following features:

- Weatherproof and UV resistant according to ISO 4892 (QUV-B 600 hours) for up to ten years
- Cable binders are easy to use, thanks to their optimum geometries
- Optimum head shape for high tensile forces
- Halogen-free/silicone-free
- Constantly high temperature resistance up to 105°C

Designation example:

WT-UV HF 2,5X98 BK

Cable binder width: 2.5 mm

Cable binder length: 98 mm



Cable tie length of 98 - 365 mm

General data

Material	PA 6.6
Components	free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 105 [°C]

Technical data

PA 6.6
free from silicone and halogen
V2
-40 ... 105

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Cable binder, maximum bundle Ø [mm]/minimum tensile strength [N]				
21 / 80	black	WT-UV HF 2,5X98 BK	3240831	100
35 / 130	black	WT-UV HF 3,6X140 BK	3240832	100
50 / 130	black	WT-UV HF 3,6X200 BK	3240833	100
50 / 220	black	WT-UV HF 4,5X200 BK	3240834	100
79 / 220	black	WT-UV HF 4,5X290 BK	3240835	100
100 / 540	black	WT-UV HF 7,8X365 BK	3240837	100

Accessories

Cable binder pliers, for plastic cable binders with a width of 2.2 - 4.8 mm, for a material thickness of up to 1.6 mm

Professional cable binder pliers, for plastic cable binders with a width of 2.2 - 4.8 mm, up to 1.6 mm material thickness

Ergonomically designed grip with comfortable tension force adjustment

UNIFOX-CT 4,8

1212475

1

UNIFOX-CT 4,8P

1212609

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Cable binders for use at high temperatures



The WT-HT HF ... cable binders are specially designed for high-temperature applications and offer the following features:

- Constantly high temperature resistance up to 125°C and briefly up to 145°C
- Cable binders are easy to use, thanks to their optimum geometries
- Black cable binders are UV stabilized
- Special head shape for high tensile forces
- Halogen-free/silicone-free
- **Designation example:** **WT-HT HF 2,5X98**

Cable binder width: 2.5 mm

Cable binder length: 98 mm



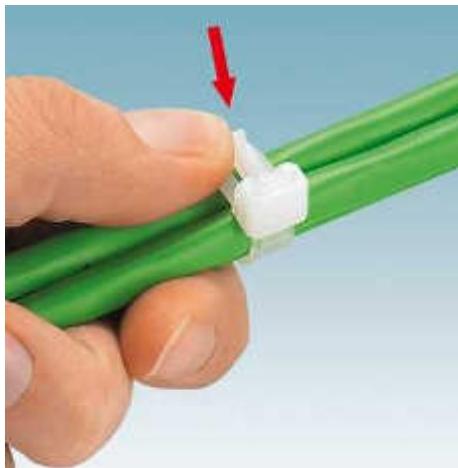
Cable tie length of 98 - 365 mm

Technical data			
General data			
Material	PA 6.6		
Components	free from silicone and halogen		
Inflammability class according to UL 94	V2		
Temperature range	-40 ... 125		
Ordering data			
Description	Color	Type	Order No.
Cable binder , maximum bundle Ø [mm]/minimum tensile strength [N]			Pcs. / Pkt.
21 / 80	transparent	WT-HT HF 2,5X98	3240780
35 / 130	transparent	WT-HT HF 3,6X140	3240782
50 / 130	transparent	WT-HT HF 3,6X200	3240784
50 / 220	transparent	WT-HT HF 4,5X200	3240786
79 / 220	transparent	WT-HT HF 4,5X290	3240788
100 / 540	transparent	WT-HT HF 7,8X365	3240792
Cable binder , maximum bundle Ø [mm]/minimum tensile strength [N]			
21 / 80	black	WT-HT HF 2,5X98 BK	3240781
35 / 130	black	WT-HT HF 3,6X140 BK	3240783
50 / 130	black	WT-HT HF 3,6X200 BK	3240785
50 / 220	black	WT-HT HF 4,5X200 BK	3240787
79 / 220	black	WT-HT HF 4,5X290 BK	3240789
100 / 540	black	WT-HT HF 7,8X365 BK	3240793
Accessories			
Cable binder pliers , for plastic cable binders with a width of 2.2 - 4.8 mm, for a material thickness of up to 1.6 mm			
Professional cable binder pliers , for plastic cable binders with a width of 2.2 - 4.8 mm, up to 1.6 mm material thickness			
Ergonomically designed grip with comfortable tension force adjustment			
UNIFOX-CT 4,8		1212475	1
UNIFOX-CT 4,8P		1212609	1

Installation and mounting material - CABINET add-on

Cable routing, cable protection, cable bundling

Cable binders for reopening



The WT-D HF ... cable binders are ideal for temporary mounting and offer the following features:

- Can be removed easily without tools and reused
- Cable binders are easy to use, thanks to their optimum geometries
- Halogen-free/silicone-free



Cable tie length of 200 - 350 mm

Technical data			
General data			
Material	PA 6.6		
Components	free from silicone and halogen		
Inflammability class according to UL 94	V2		
Temperature range	-40 ... 80 [°C]		
Ordering data			
Description	Color	Type	Order No.
Cable binder, maximum bundle Ø [mm]/minimum tensile strength [N]			
50 / 220	transparent	WT-D HF 7,5X200	3240712
65 / 220	transparent	WT-D HF 7,5X250	3240714
100 / 220	transparent	WT-D HF 7,5X350	3240716
Cable binder, maximum bundle Ø [mm]/minimum tensile strength [N]			
50 / 220	black	WT-D HF 7,5X200 BK	3240713
65 / 220	black	WT-D HF 7,5X250 BK	3240715
100 / 220	black	WT-D HF 7,5X350 BK	3240717

Cable binders with lug for direct rivet or screw mounting

Notes:
For corresponding cable binder pliers, see previous page.



Cable tie length of 150 - 380 mm

Technical data			
General data			
Material	PA 6.6		
Components	free from silicone and halogen		
Inflammability class according to UL 94	V2		
Temperature range	-40 ... 85 [°C]		
Ordering data			
Description	Color	Type	Order No.
Cable binder, maximum bundle Ø [mm]/minimum tensile strength [N]			
32 / 130 hole diameter 4.5 mm	transparent	WT-E HF 3,6X150	3240718
50 / 220 hole diameter 5.2 mm	transparent	WT-E HF 4,8X200	3240720
44 / 540 hole diameter 6.5 mm	transparent	WT-E HF 7,8X200	3240722
75 / 540 hole diameter 6.5 mm	transparent	WT-E HF 7,8X300	3240724
104 / 540 hole diameter 6.5 mm	transparent	WT-E HF 7,8X380	3240726

The WT-E HF ... cable binders with lug for direct mounting offer the following features:

- Space saving, thanks to molded fastening lug
- Secure hold, thanks to screw or rivet fixing
- Easy to use
- Halogen-free/silicone-free
- Optimum head shape for high tensile forces
- Temperature range: briefly up to 110°C

Cable binders with body-bound rivet for direct mounting



The WT-R HF ... cable binders for straightforward direct mounting offer the following features:

- Space saving, thanks to molded body-bound rivet
- Easy to plug in and optimum hold in standard drill hole
- Optimum head shape for high tensile forces
- Halogen-free/silicone-free

Notes:

For corresponding cable binder pliers, see previous page.



Cable tie length of 150 - 200 mm

General data

Material	PA 6.6
Components	free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 85 °C

Technical data

Description	Color
Cable binder, maximum bundle Ø [mm]/minimum tensile strength [N]	
38 / 130 hole diameter 5.2 mm	transparent
50 / 220 hole diameter 6.3 mm	transparent

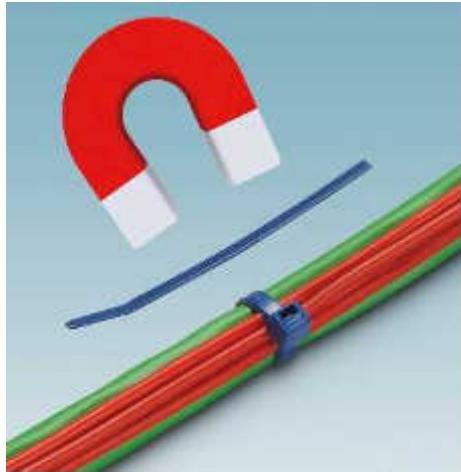
Ordering data

Type	Order No.	Pcs. / Pkt.
WT-R HF 3,6X150	3240801	100
WT-R HF 4,8X200	3240803	100

Detectable cable binders

Notes:

For corresponding cable binder pliers, see previous page.



Cable tie length of 98 - 365 mm

General data

Material	PA 6.6
Components	free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 85 °C

Technical data

Description	Color
Cable binder, with metal portions, maximum bundle Ø [mm]/minimum tensile strength [N]	
21 / 80	blue
35 / 130	blue
50 / 130	blue
50 / 220	blue
79 / 220	blue
100 / 540	blue

Ordering data

Type	Order No.	Pcs. / Pkt.
WT-ID HF 2,5X98 BU	3240794	100
WT-ID HF 3,5X140 BU	3240795	100
WT-ID HF 3,5X200 BU	3240796	100
WT-ID HF 4,5X200 BU	3240797	100
WT-ID HF 4,5X290 BU	3240798	100
WT-ID HF 7,5X365 BU	3240800	100

The WT-ID HF ... cable binders are specially designed for production processes in the food, pharmaceutical, and chemical industries and offer the following features:

- High level of protection against contamination in the production process
- Detectable using X-ray units or metal detectors
- Magnetic
- Easy to see
- Corrosion-free

Installation and mounting material - CABINET add-on

Cable routing, cable protection, cable bundling

Cable binders made of stainless steel AISI 304 (V2A)

Notes:

For corresponding stainless steel cable markers, see page 222.



The WT-STEEL S ... cable binders are especially suited to use outdoors and in the chemical industry. They offer the following features:

- Secure, permanent attachment and a long service life
- Corrosion resistant
- Chemical resistance
- UV resistant
- Weatherproof
- Fire-proof
- Vibration-resistant
- Easy to use and self-locking
- Anti-magnetic
- Halogen-free/silicone-free



Cable tie length of 150 - 1067 mm

Lloyd
Register

General data

Material
Temperature range

Technical data

Stainless steel 1.4301/AISI 304
-80 ... 538

Description

Color

Ordering data

Cable binder, made of stainless steel (AISI 304), width 4.6 mm,
maximum bundle Ø [mm]/minimum tensile strength [N]

30 / 890
50 / 890
69 / 890
102 / 890
152 / 890
203 / 890
254 / 890
305 / 890

silver
silver
silver
silver
silver
silver
silver
silver

WT-STEEL S 4,6X150
WT-STEEL S 4,6X201
WT-STEEL S 4,6X259
WT-STEEL S 4,6X360
WT-STEEL S 4,6X520
WT-STEEL S 4,6X679
WT-STEEL S 4,6X838
WT-STEEL S 4,6X1067

Type

3240807
3240808
3240809
3240810
3240811
3240812
3240723
3240805

100
100
100
100
100
100
100
100

Cable binder, made of stainless steel (AISI 304), width 7.9 mm,
maximum bundle Ø [mm]/minimum tensile strength [N]

69 / 1335
102 / 1335
152 / 1335
203 / 1335
254 / 1335
305 / 1335

silver
silver
silver
silver
silver
silver

WT-STEEL S 7,9X259
WT-STEEL S 7,9X360
WT-STEEL S 7,9X520
WT-STEEL S 7,9X679
WT-STEEL S 7,9X838
WT-STEEL S 7,9X1067

3240814
3240815
3240816
3240817
3240725
3240813

100
100
100
100
100
100

Accessories

Cable binder pliers, for steel cable binders with a width of up to
7.9 mm, for a material thickness of up to 0.3 mm

UNIFOX-CT M 7,9

1212610

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**Cable binders made of stainless steel
AISI 316 (V4A)**



The WT-STEEL SH ... cable binders are especially suited to use with aggressive chemicals and in onshore and offshore areas. They offer the following features:

- Secure, permanent attachment with long service life
- Corrosion resistant when exposed to aggressive chemicals, e.g., acids, salt fog, and sea water
- UV resistant
- Weatherproof
- Fire-proof
- Vibration-resistant
- Easy to use
- Anti-magnetic
- Halogen-free/silicone-free



Cable tie length of 150 - 1067 mm

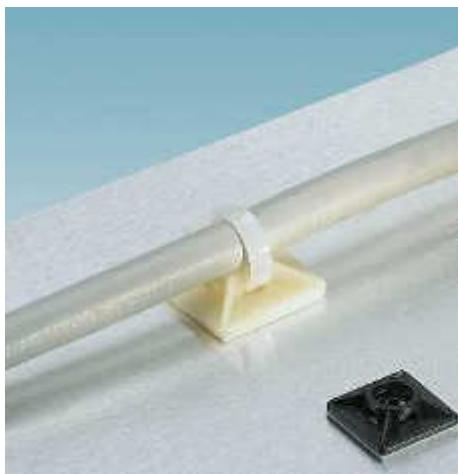


Technical data				
General data				
Material		Stainless steel 1.4401/AISI 316		
Temperature range		-80 ... 538 [°C]		
Ordering data				
Description	Color	Type	Order No.	Pcs. / Pkt.
Cable binder , made of stainless steel (AISI 316), width 4.6 mm, maximum bundle Ø [mm]/minimum tensile strength [N]				
30 / 890	silver	WT-STEEL SH 4,6X150	3240820	100
50 / 890	silver	WT-STEEL SH 4,6X201	3240821	100
69 / 890	silver	WT-STEEL SH 4,6X259	3240822	100
102 / 890	silver	WT-STEEL SH 4,6X360	3240823	100
152 / 890	silver	WT-STEEL SH 4,6X520	3240824	100
203 / 890	silver	WT-STEEL SH 4,6X679	3240825	100
254 / 890	silver	WT-STEEL SH 4,6X838	3240727	100
305 / 890	silver	WT-STEEL SH 4,6X1067	3240818	100
Cable binder , made of stainless steel (AISI 316), width 7.9 mm, maximum bundle Ø [mm]/minimum tensile strength [N]				
69 / 1335	silver	WT-STEEL SH 7,9X259	3240827	100
102 / 1335	silver	WT-STEEL SH 7,9X360	3240828	100
152 / 1335	silver	WT-STEEL SH 7,9X520	3240829	100
203 / 1335	silver	WT-STEEL SH 7,9X679	3240830	100
254 / 1335	silver	WT-STEEL SH 7,9X838	3240766	100
305 / 1335	silver	WT-STEEL SH 7,9X1067	3240826	100
Accessories				
Cable binder pliers , for steel cable binders with a width of up to 7.9 mm, for a material thickness of up to 0.3 mm		UNIFOX-CT M 7,9	1212610	1

Installation and mounting material - CABINET add-on

Cable routing, cable protection, cable bundling

Cable binder base, self-adhesive and/or screwable



The WT-BASE LS ... cable binder bases are characterized by their excellent adhesive properties as well as the following:

- Easy to use
- Cable binders can be fed through on four sides
- Self-adhesive and optionally screwable
- Secure hold, load can be applied after just a few minutes
- Halogen-free/silicone-free



Technical data

General data

Material
Inflammability class according to UL 94
Temperature range

[°C]
ABS
HB
-40 ... 60

Description

Color

Cable binder base, for cable binders of up to 4 mm width,
self-adhesive and screwable, 4 mm fixing hole, dimensions:
19 x 19 mm

transparent
black

WT-BASE LS HF 4
WT-BASE LS HF 4 BK

3240706
3240707

100
100

Cable binder base, for cable binders of up to 6 mm width,
self-adhesive and screwable, 4.8 mm fixing hole, dimensions:
27 x 27 mm

transparent
black

WT-BASE LS HF 6
WT-BASE LS HF 6 BK

3240708
3240709

100
100

Ordering data

Type

Order No.

Pcs. /
Pkt.

Cable binder base, screwable



Technical data

General data

Material
Inflammability class according to UL 94
Temperature range

[°C]
PA 6.6
V2
-40 ... 85

Description

Color

Cable binder base, for cable binders of up to 5 mm width,
screwable, 3.5 mm fixing hole, dimensions: 9.5 x 15 mm

transparent
black

WT-BASE HF 5
WT-BASE HF 5 BK

3240702
3240703

100
100

- Space-saving design
- Easy to use
- Cable binders can be fed through on two sides
- Halogen-free/silicone-free

Cable binder base, for cable binders of up to 9 mm width,
screwable, 5 mm fixing hole, dimensions: 14.6 x 22 mm

transparent
black

WT-BASE HF 9
WT-BASE HF 9 BK

3240704
3240705

100
100

Ordering data

Type

Order No.

Pcs. /
Pkt.

Cable binder base for direct mounting

- WT-BASE R ... with molded body-bound rivet for direct mounting in materials of up to 3 mm thickness
- WT-BASE P ... is ideally suited to use in solid panels
- Easy to use, can be directly knocked into the panel

**General data**

Material	PA 6.6
Inflammability class according to UL 94	V2
Temperature range	-40 ... 85 [°C]

Technical data

PA 6.6
V2
-40 ... 85 [°C]

Technical data

PA 6
HB
-10 ... 65

Description**Color**

Cable binder base, for cable binders of up to 8 mm width, with molded body-bound rivet, 6.5 mm drilling diameter

transparent

Cable binder base, for cable binders of up to 9.5 mm width, with fins, 8 mm drilling diameter, can be knocked in

black

Ordering data**Type****Order No.****Pcs. / Pkt.**

WT-BASE R HF 8

3240711

100

Ordering data**Type****Order No.****Pcs. / Pkt.**

WT-BASE P HF 9,5 BK

3240710

100

Cable drillers, for fast and tool-free bundling of conductors and cables**General data**

Material	PA 6.6
Inflammability class according to UL 94	V2
Temperature range	-40 ... 85 [°C]

Technical data

PA 6.6
V2
-40 ... 85 [°C]

Description**Color****Cable driller**

Bundle diameters 5.1 - 7.6 mm	transparent
Bundle diameters 7.6 - 10.2 mm	transparent
Bundle diameters 10.2 - 12.7 mm	transparent
Bundle diameters 12.7 - 16 mm	transparent
Bundle diameters 16 - 20.3 mm	transparent

Type**Order No.****Pcs. / Pkt.**

WG-D HF 7,6	3241099	1000
WG-D HF 10,2	3241101	1000
WG-D HF 12,7	3241103	1000
WG-D HF 16	3241105	1000
WG-D HF 20,3	3241107	1000

Cable driller

Bundle diameters 5.1 - 7.6 mm	black
Bundle diameters 7.6 - 10.2 mm	black
Bundle diameters 10.2 - 12.7 mm	black
Bundle diameters 12.7 - 16 mm	black
Bundle diameters 16 - 20.3 mm	black

WG-D HF 7,6 BK	3241100	1000
WG-D HF 10,2 BK	3241102	1000
WG-D HF 12,7 BK	3241104	1000
WG-D HF 16 BK	3241106	1000
WG-D HF 20,3 BK	3241108	1000

- Fast and easy to use
- Can be removed again
- Reusable
- Tool-free mounting
- Ideal for temporary bundling
- Halogen-free/silicone-free

General information and regulations

Quality in quantity



Integrated management system

The aim of the Phoenix Contact integrated management system is to coordinate all the requirements regarding products, processes, and organization.

Statutory and regulatory requirements, as well as those of international standards and our customers, are met and, in some cases, even exceeded in all phases of the product lifecycle.

The Phoenix Contact management system is monitored by internationally recognized independent bodies each year to ensure that quality, environmental protection, and safety at the workplace have been integrated in conformity with the relevant requirements. Certification in accordance with international standards ISO 9001, ISO 14001, and BS OHSAS 18001 is the result of our corporate philosophy of meeting the needs of our customers, staff, and environment as fully as possible. They serve as the basis for innovative products with the familiar high Phoenix quality standard, actively practiced environmental protection, and responsibility in the field of occupational health and safety. Of course, we integrate all further requirements of standards, international approvals or special customer requirements into company processes.

This system provides a building block for the success of the Phoenix Contact Group and its products and services.

CE marking

The CE mark was introduced as an important instrument for the free movement of goods and services within the single European market. By attaching the mark to a product, the manufacturer confirms that it complies with all applicable European Union (EU) directives. EC directives describe the product properties with regard to device safety and avoiding

danger. These are legally binding regulations of the European Union (EU). In other words, compliance with the requirements is a **statutory condition for marketing the product within the EU**.

Where applicable, the products that our company currently manufactures fall within the scope of the following directives:

- 2006/95/EC Electrical equipment designed for use within certain voltage limits (Low-Voltage Directive)
- 2004/108/EC Electromagnetic compatibility (EMC Directive)
- 2006/42/EC Safety of machinery (Machinery Directive)
- 94/9/EC Equipment and protective systems intended for use in potentially explosive areas (ATEX Directive 100a)
- 1999/5/EC Radio equipment and telecommunications terminal equipment (R&TTE)

The standards upon which the specified directives are based have been part of our standard of development for a long time. This guarantees conformance with European directives. The numbers of the directives indicate their version at the time of publication. In the event of changes to directives and/or standards, our products will undergo conformity assessment again in good time and a new declaration of conformity will be issued simultaneously. The current declarations for each product can also be found in our Download Center.

The EMC Directive occupies a special place among the European directives listed. It defines electromagnetic compatibility as a fundamental property of devices based on mandatory guidelines. European Law therefore acknowledges the electromagnetic compatibility of devices and systems as an important condition for error-free operation of machinery and systems. Phoenix Contact is one of the leading international companies in surge protection, and therefore possesses broad expertise in EMC. This expertise and the experience gained over years of developing and applying industrial interface and communication technology have resulted in our products having an extremely high standard of quality with regard to electromagnetic compatibility. It was with a view to providing other companies with this expertise that our associate company, Phoenix Testlab, was founded. Phoenix Testlab GmbH is an independent, accredited service provider offering EMC testing that conforms to European standards. At Phoenix Testlab, devices are also tested with regard to their electrical safety,

mechanical influences, and their behavior in relation to environmental influences. Furthermore, Phoenix Testlab is a "Notified Body" in accordance with EMC Directive 2004/108/EC and according to R&TTE Directive 1999/5/EC for radio and telecommunications terminal equipment. As a "Telecom Certification Body" (TCB), Phoenix Testlab may also approve these products for markets in the USA, Canada, and Japan.

Standards and regulations

All relevant standards and regulations are used as the basis for the development and maintenance of our products.

International standards are subject to continuous changes as a result of harmonization and new developments. In line with this process, the current version of all standards that are relevant to our products is documented in the product area on our website at www.phoenixcontact.net/products.

Online product information service on the web

Phoenix Contact's product range is growing constantly.

Due to our commitment to product monitoring, all products are subject to improvement.

The Internet is an ideal platform to quickly communicate new product developments and improvements to the market.

You can quickly access the relevant Phoenix Contact website for your region via www.phoenixcontact.com. Here, you will always find the latest overview of products, solutions, and services from Phoenix Contact. This includes technical documents, such as data sheets and user manuals, the latest driver and demo software, plus a means of contacting the appropriate contact person directly.

Materials

Polyamide (PA)

Polyamide has excellent electrical, mechanical, chemical, and thermal properties, even at high operating temperatures. Brief peak temperatures of up to 200°C are permitted as a result of heat aging stabilization. Polyamide absorbs moisture from its surroundings (2.8% on average). However, this moisture is not in the form of crystallization water in the plastic itself, but chemically bonded H₂O groups in the molecule structure. This makes the plastic flexible and resistant to breakage, even at temperatures as low as -60°C. PA belongs to inflammability class V2 to V0 as per UL 94. The polyamide used by Phoenix Contact is silicone- and halogen-free and is suitable for use at temperatures between -60°C and +125°C.

Polycarbonate (PC)

Polycarbonate has a high mechanical strength and chemical resistance. Rigidity, dimensional stability, and good heat distortion resistance are further distinguishing features of this material. Polycarbonate is used to manufacture particularly smooth and stable marking materials. The polycarbonate used by Phoenix Contact is silicone- and halogen-free. It absorbs little moisture and is suitable for use at temperatures between -40°C and +125°C.

Polycarbonate/Acrylonitrile butadiene styrene (PC/ABS)

PC/ABS blends are amorphous thermoplastics which are characterized by high impact strength potential even at low temperatures. They are resistant to acids and bases, for example. In addition to benefiting from a high dimensional accuracy and low distortion tendency, they absorb little moisture. The products manufactured from these blends have high-gloss surfaces. Temperature range: -50°C to +90°C.

Acrylonitrile butadiene styrene (ABS)

ABS is a copolymer. It has a high impact strength and is strong and hard. The ABS used by Phoenix Contact is silicone-free and is suitable for use at temperatures between -40°C and +85°C.

Polyvinyl chloride (PVC)

PVC has a long service life. It is characterized in particular by its outstanding mechanical strength and high chemical resistance. Neither oxygen nor ozone affects PVC. The material is resistant to corrosive salt solutions and most acids. The polyvinyl chloride used by Phoenix

Contact is silicone-free and is suitable for use in temperatures between -30°C and +80°C.

Polyester

Polyester is a chemical-resistant material. It is ideally suited to printing, shaping, and punching. Polyester is resistant to UV radiation and absorbs little moisture. The polyester used by Phoenix Contact is silicone- and halogen-free. Depending on its composition, it is suitable for use in temperatures between -40°C and +150°C.

Polyolefin

Polyolefines are semi-crystalline thermoplastics, which can be easily processed as extrusion profiles (shrink sleeves). They are characterized by good chemical resistance. Silicone-free, temperature range: 55°C to +125°C.

Polyethylene (PE)

Polyethylene is a thermoplastic material which is highly resistant to acids, alkalis, and other solvents. PE absorbs hardly any moisture and has high durability and breaking elongation. Silicone- and halogen-free, temperature range: -40°C to +80°C.

Halogen-free

The term halogen-free, based on international standards for base materials for PCBs (e.g., IEC 61249-2-21, IPC 4101 C), relates to the elements chlorine and bromine in flame protection agents. This also forbids the use of flame protection agents containing halogen in accordance with DIN EN ISO 1043-4.

This means that, according to the definition in the ZVEI position paper (requirements for the use of halogen-free products in the electrical and electronics industry), no flame protection agents containing halogen or PVC are present in the components.

Technical information

Marking and labeling - MARKING system

Inflammability classification

UL 94 V0/1/2

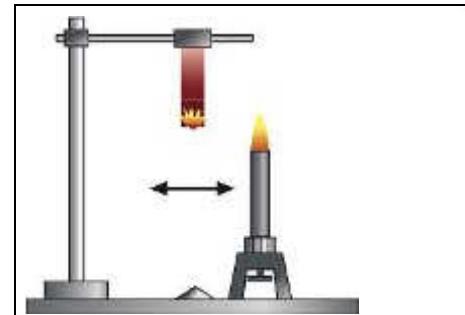
The inflammability tests for plastics have been defined by the Underwriters Laboratory (USA) in regulation UL 94. This applies to all areas of application, but in particular to electrical engineering. Inflammability of the plastic material is examined in the test laboratory in a horizontal (HB - Horizontal Burn) or vertical (V - Vertical Burn) test with a naked flame. In order of increasing resistance to combustion, the evaluation classes are HB, V1, V2, V0. Test results are listed on "yellow cards" and are published annually in the Recognized Component Directory.

The flash point, the combustion point, and the ignition point of a material are decisive with regard to behavior in fire. The tests show that the classifications of UL 94 V1/2/0 are stricter than those of UL 94 HB.

The test bar is clamped vertically and flame-treated several times. Each flame treatment lasts 10 seconds. Between the flame treatments, the time until the test bar is extinguished is measured. Afterwards, the afterburning times and the drip behavior are evaluated.

This test setup is not suitable for foils and/or very thin test objects that shrink when exposed to the heat of the flame.

Phoenix Contact only uses plastics which conform to UL 94 V1/2/0.



Test setup according to UL 94 V0/1/2

Classification

	UL 94 V0	UL 94 V1	UL 94 V2	UL 94 HB
Burning time after each flame treatment	≤ 10 s	≤ 30 s	≤ 10 s	-
Total burning time after 10 flame treatments	≤ 50 s	≤ 250 s	≤ 250 s	-
Glowing time after the 2nd flame treatment	≤ 30 s	≤ 60 s	≤ 60 s	-
Complete burn-off	No	No	No	Yes
Ignition of the absorbent cotton under the sample	No	No	Yes	-

Halogen-free flame protection

DIN EN ISO 1043-4

Halogens are the chemical elements astatine, fluorine, chlorine, bromine, and iodine. One characteristic of the halogen compounds of bromine and chlorine relates to the reduction in the degree of inflammability when used in plastics. In the event of fire, poisonous corrosive gases are formed. Secondary damage attributable in part to the water used to extinguish the fire can also be caused. For this reason, Phoenix Contact does not use any flame protection systems which contain halogen or other additives. Polyamide, polycarbonate,

polycarbonate/acrylonitrile butadiene styrene, acrylonitrile butadiene styrene, and polyolefines feature halogen-free flame protection systems.



Aging test

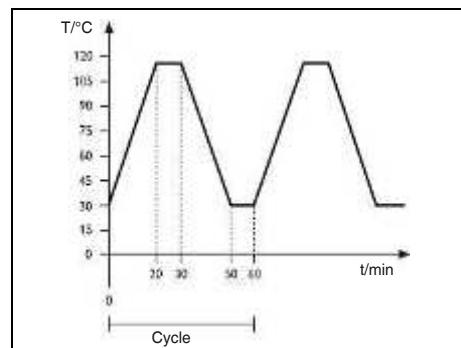
IEC 60947-7-1/-2

Modular terminal blocks are characterized, among other things, by long life cycles and their ability to safely withstand continuous temperatures of +125°C. In order to ensure that the labeling of these terminal blocks also meets these requirements, Phoenix Contact uses labeling materials with heat stabilizers.

To simulate usage over several years, the marking materials, together with the terminal blocks or conductors, are subjected to a defined temperature cycle in the climate cabinet. The minimum temperature in the climate cabinet is set to +20°C and the maximum temperature to

+120°C (+80°C for PVC). The test objects reach the maximum permissible operating temperature during the warming phase and the 10-minute pause phase. The cooling down phase follows. This test consists of a total of 192 cycles.

Without exception, Phoenix Contact marking materials are tested according to IEC 60947-7-1/-2. All plastics used also have sufficient safety reserves.



Temperature in relation to time

Resistance to oil and chemicals

In accordance with DIN EN ISO 175

Physical and/or chemical processes/reactions can occur as a result of external media, such as liquids or gases. This can result in a change to the plastic's properties. The plastic can be damaged or even destroyed. Imprints and labels can also be affected by these changes.

In order to prevent this from happening, Phoenix Contact uses only plastics and printing/labeling materials which have been tested based on DIN EN ISO 175.

Chemical	Weight %
Alkalies	
Sodium hydroxide solution	3
Potassium hydroxide solution	3
Ammonium hydroxide (ammonia water)	25
Alcohols	
Ethanol	100
1-propanol	100
2-propanol	100
Diethylene glycol	100
Aldehyde/ketones	
Ethyl acetate	100

Chemical	Weight %
Oils, greases, aliphatic, and aromatic hydrocarbons	
IRM 902	100
IRM 903	100
ASTM No.1	100
Xylool	100
Test benzene (180/220)	100
Hycut SU 68	100
Hycut SET 46	100
Shell Tellus 92	100
Aqueous salt solutions	
Sodium chloride	5
Potassium chloride	5
Ammonium chloride (ammonia solution)	100

UV light resistance

In accordance with DIN EN ISO 4892-2 and DIN EN ISO 60068-2-5

UV-B components restrict mechanical properties in plastics. As a consequence, imprints and labels can be damaged to a greater or lesser extent dependent upon the type of plastic.

Marking materials from Phoenix Contact can be stored in dry as well as humid atmospheres under UV radiation and are tested in accordance with the aforementioned standards.



Technical information

Marking and labeling - MARKING system

Corrosion test

DIN 50018

Extreme ambient influences impose demanding requirements on components and their labeling and marking.

The following test method, based on DIN 50018, describes the corrosion test in an alternating condensation climate with an atmosphere that contains sulfur dioxide.

Two liters of distilled water and one liter of SO₂ gas are introduced into a climate cabinet. During the test and at a test temperature of 40°C, an acidic atmosphere is formed, which affects the material surfaces of the test objects. After eight hours of testing, the test objects dry for 16 hours with the door open. Finally, a microscopic visual check is performed.

All marking materials used by Phoenix Contact conform to this demanding standard and are resistant to aggressive substances.



Salt spray

IEC 60068-2-11/-52

Particularly in shipbuilding, technical components have to be marked and must remain permanently legible in corrosive atmospheres. The salt content of the air in combination with the increased humidity places high demands on the imprints and materials used. The impact of the climate at sea can be simulated on the basis of IEC 60068-2-11/-52.

The resistance of the materials in a corrosive atmosphere is tested using salt spray. The test objects are placed in the test chamber and subjected to a finely dosed spray of 5% sodium chloride solution (NaCl; pH value 6.5 - 7.2) at a temperature of +35°C for a period of 96 hours. A microscopic inspection is performed after the test.

Phoenix Contact marking materials fulfill these stringent requirements and can be used even in extreme climatic conditions.



Resistance to solvents

In accordance with EN 60464-2:2001

Markings and labels must be resistant to a variety of solvent vapors. Based on the above standard, imprints and labels are stored in acetone, n-hexane, and ethanol for a period of 10 days and must be legible at the end of this time. Phoenix Contact

marking materials are solvent-resistant and fulfill the stringent requirements.

Scratch resistance

In accordance with DIN EN ISO 1518

Labels and imprints must also be resistant to external, point, and/or linear mechanical loads.

For this reason, Phoenix Contact tests all labels and imprints for scratch resistance in accordance with the aforementioned standard. The test is carried out by applying a scratching tool with a hemispherical tip (1 mm in diameter) to the test objects. Depending on the printing procedure, a force of between 2 N and 6 N is applied. This is followed by a visual and microscopic

inspection of the test objects. Phoenix Contact marking materials fulfill these high mechanical requirements.



Resistance to abrasion

According to KIMW 003, Part 1 In-house standard of the Lüdenscheid Plastics Institute

Labels and imprints must be resistant to externally applied surface loads. The aforementioned in-house standard prescribes grouping labels and imprints in load classes. A felt disk (hardness H1 according to DIN 61200) is subjected to various numbers of strokes (1000, 10,000, 30,000) with a pressure force of 1 N, 2 N, and/or 4 N. Imprints are classified into the

various load classes defined in the in-house standard on the basis of the pressure force and the number of strokes at which they sustain damage.

Phoenix Contact imprints and labels meet the requirements of the highest load class K9 (30,000 strokes with 4 N pressure force).

Abrasion and wipe resistance

According to DIN EN 61010-1

Labels and imprints must be resistant to standard industrial cleaning agents. The aforementioned standard prescribes the use of a soft cloth with water, isopropanol, petroleum ether, and n-hexane to clean labels and imprints. They must remain clearly legible after cleaning.

Phoenix Contact marking materials fulfill the stringent requirements as regards abrasion and wipe resistance and can be used in all applications.



Vibration resistance

According to IEC 60068-2-6

This test demonstrates the vibration resistance and the secure seating of the marking materials under the influence of continuous vibrations. Harmonic, sinusoidal vibrations are applied to the test object to simulate rotating, pulsating or oscillating forces. The test is performed on each of the three spatial axes (x, y, z). In the test, the object runs through a frequency range of 3 Hz to 150 Hz at a speed of one octave per minute. The r.m.s. value of the acceleration is up to 50 m/s². The test

objects are tested in the three axes for two hours each. The marking materials must not be damaged in such a way that would impair their continued use.

All Phoenix Contact marking materials meet the requirements of the standard and are particularly suitable for applications in which they are subjected to high levels of vibration.

Vibration test

According to DIN EN 61373 - broadband noise (intensity according to DIN EN 50155)

In many applications and especially in traffic technology, labeling materials are subjected to vibrations and shocks. For a practical simulation of vibration stress, the test objects are tested for vibration resistance at increasing and decreasing frequencies and amplitudes. In the test, the objects run through a frequency range of 5 Hz to 150 Hz. The r.m.s. value of the acceleration is up to 42.5 m/s^2 . The test objects are tested for five hours in each of the three axes (x, y, z). The components and

marking materials must not be damaged in such a way that would impair their continued use.

All Phoenix Contact marking materials fulfill these stringent vibration requirements.



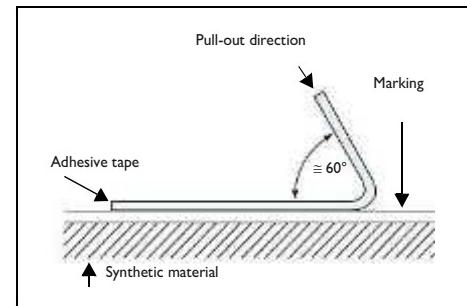
Grid test

In accordance with DIN EN ISO 2409

A Sellotape test is conducted based on DIN EN ISO 2409. A transparent strip of self-adhesive tape with an adhesive strength of $10 \pm 1 \text{ N}$ is attached to the print or label to be tested. It is then pulled away from the surface at an angle of 60° to the direction of tensile force at a speed of 1 cm/s.

There should be no marks from the print on the adhesive tape after the test.

Phoenix Contact marking materials meet the requirements of this standard. They are tough and resistant to peeling.

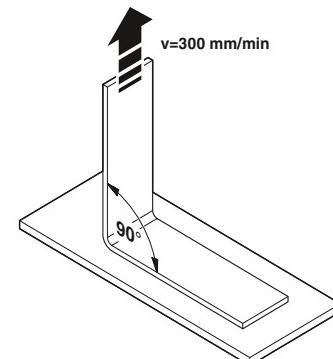


Test setup

Adhesive strength test

In accordance with FINAT test method No. 2

The purpose of this test is to compare the adhesive strength of labels on various base materials. To this end, a strip of labels (25 mm x 175 mm) is applied to the respective base material with a specified force. After a defined storage period, the strip is removed from the base material at an angle of 90° and a speed of 300 mm/min. The adhesive strength is specified in N/25 mm. The test therefore enables the most suitable label for the application to be selected.



Cutting

Shear cutting

Ratchet-driven cable cutters are a quick and reliable solution for cutting conductors and cables in the upper cross-section range up to 1400 mm². Special cutting geometries help to ensure that the tool is easily accessible and can be relied upon to produce burr-free right-angle cuts. In this cutting procedure, which is also known as shear cutting, the two blades move towards and past one another and cut (shear) the material without burring. DIN 8588 describes this procedure as severing.

Bite cutting

During bite cutting, the material is severed by two wedge-shaped blades moving in opposite directions. The wedge angle set for the blades is deliberately large and stable. In addition to the hardening of the entire tool, the cutting area is subsequently hardened again inductively to 62 HRC. This makes it possible to sever even extremely hard materials such as piano wire and spring steel with a tensile strength

of up to 2300 N/mm² without damaging the tool. Bite cutting is suitable only to a limited extent for cutting through cables and lines.

The high-quality CUTFOX cutting tools from Phoenix Contact can be relied upon for long-term stability and permanently consistent results.



Shear cutting



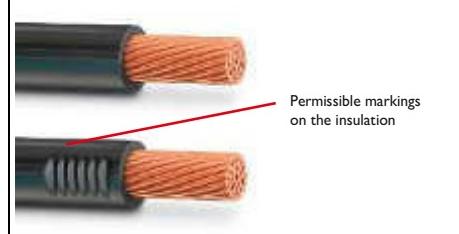
Bite cutting

Stripping

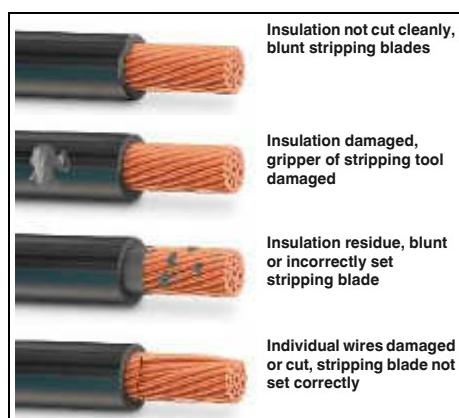
Stripping describes removing the insulation of conductors up to 16 mm². In the case of larger conductor cross sections and multiple-wire and multi-layer conductors and cables, only the outer insulation sheath is removed. The length of the insulation to be removed varies dependent upon terminal point and connector. Removing the insulation must not damage either the individual inner wires or the braided shield. The remaining insulation must also remain intact, although pressure points on and color changes in the insulation material are permitted. Further faults that need to be prevented are stipulated in DIN IEC 60352.

Suitable blade geometries are used to process special insulation materials. V blades are used for both hard (e.g., Teflon/ Radox®) and soft ductile rubber insulations (silicone).

Phoenix Contact WIREFOX automatic stripping pliers can remove insulation quickly and correctly.



Cable stripped correctly according to DIN IEC 60352



Cable stripped incorrectly according to DIN IEC 60352

Crimping/pressing/crushing

Crimping describes the joining of contact and conductor mechanically. In addition to crimping, two other terms are used dependent upon the type of deformation. A distinction is made between squeezing (for insulated cable lugs) and pressing (for ferrules and uninsulated cable lugs). Flat plugs are described as being crimped.

A number of important points must be considered in order to establish a reliable connection between contact and conductor:

- The conductor must be processed correctly
- The contact and the conductor must be compatible
- The conductor must be positioned correctly in the contact
- A suitable crimping tool must be selected

Professional crimping pliers are always equipped with a releasing pressure lock. They unlock as soon as the required crimping pressure is attained, thereby ruling out the possibility of too little

pressure. This guarantees the user a constant crimping result with maximum pull-out values.

The DIN EN 60352-1 and DIN EN 60999-1 standards are among the references used to assess crimping results. In addition to a variety of electrical and mechanical tests, conductor pull-out tests are the decisive criterion.

All Phoenix Contact crimping tools have been adjusted and tested according to valid standards. They ensure gas-tight crimping that will remain stable in the long-term.



Pressing



WM crimp

For pressing ferrules according to DIN 46228-1 and DIN 46228-4. Areas of application for conductor sizes 10 - 50 mm².



B crimp

For pressing uninsulated flat plugs and slip-on sleeves. Areas of application for conductor sizes 0.1 - 6 mm².



Hex crimp

For pressing uninsulated tube lugs, coaxial plug-in connectors, and fiber optic plug-in connectors. Areas of application for conductor sizes 0.5 - 6 mm². Coaxial: 1.73 mm; 2.54 mm; 8.23 mm, 10.54 mm, and 10.9 mm. FO: 3.25 mm, 3.84 mm, 4.52 mm, 5.0 mm, and 5.41 mm.



Square crimp

For pressing ferrules according to DIN 46228. Areas of application for conductor sizes 0.14 - 10 mm².



Indent/prong crimp

For pressing uninsulated cable lugs. Areas of application for conductor sizes 0.75 - 10 mm².



Trapezoid crimp

For pressing ferrules according to DIN 46228-1 and DIN 46228-4. Areas of application for conductor sizes 0.25 - 10 mm².



Oval crimp

For pressing insulated cable lugs and connectors. Areas of application for conductor sizes 0.1 - 6 mm².



Double indent crimp

For pressing uninsulated cable lugs. Areas of application for conductor sizes 0.75 - 10 mm².

Conductor pull-out test

DIN EN 60352-2

In practice, crimping points can be affected by tensile forces during wiring or operation. Therefore, crimped contacts must offer a high degree of mechanical safety. To test the tensile load capacity of the crimp, a predefined cross-sectional tensile force is applied for a period of 60 seconds. The tensile force exerts stress on the conductor at the crimping point. The crimp must withstand the load without sustaining damage.

The test results for Phoenix Contact contacts are significantly higher than the minimum values required by the standard.



Conductor cross sections/conductor pull-out forces

Structure and dimensions of connecting cables

Conductor pull-out forces

AWG/kcmil	Metric conductor cross section [mm ²]	Comparable conductor cross section [mm ²]	Crimping sleeves DIN EN 60352-2 (11/2006)	Ferrules IEC EN 60999 ¹) (up to 35 mm ²)	Ferrules IEC EN 60947-7-1 (35 mm ² and above)
	[mm ²]	[mm ²]	[N] ²)	[N] ³)	[N] ³)
30	0.0507	0.05	6		
(29)	0.0647				
28	0.0804	0.08	11		
(27)	0.102				
26	0.128	0.12	15		
(25)	0.163	0.14	18		
24	0.205	0.22	28	10	
(23)	0.259	0.25	32		
22	0.325	0.32	40	15	
(21)	0.412				
20	0.519	0.5	60	20	
(19)	0.653	0.75	85	30	
18	0.824	0.82	90	30	
(17)	1.04	1	108	35	
16	1.307	1.3	135	40	
(15)	1.651	1.5	150	40	
14	2.082	2.1	200	50	
(13)	2.627	2.5	230	50	
12	3.307	3.3	275	60	
(11)	4.169	4	310	60	
10	5.26	6	360	80	
(9)	6.633				
8	8.367	8.4	370	90	
(7)	10.55	10	380	90	
6	13.229			100	
(5)	16.767	16			
4	21.148			135	
(3)	26.667	25		156	
2	33.624	35		190	
1	42.406				236
0	53.482	50			236
00	67.43	70			285
000	85.014	95			351
0000	107.22	120			427
250 kcmil	127	120			427
300 kcmil	152	150			427
350 kcmil	177	185			503
400 kcmil	203				503
500 kcmil	253	240			578
600 kcmil	304	300			578

¹) DIN 57609 has been replaced by IEC EN 60999.

²) Pull-out values for open and closed crimping sleeves and insulated crimping sleeves.

³) Pull-out values for ferrules, insulated and uninsulated.

Gas tightness

Corrosion-free contact areas are a prerequisite for high-performance and low-resistance connections. The corrosion test described below shows that when used correctly at contact points, Phoenix Contact crimping tools and connectors achieve a permanent gas-tight connection that remains intact even when exposed to aggressive substances.

The test method, which is based on DIN 50018, describes the corrosion test in an alternating condensation climate with an atmosphere that contains sulfur dioxide.

Two liters of distilled water and one liter of SO₂ gas are introduced into a climate cabinet. At a test temperature of 40°C, acidic compounds < pH 7 form during the test and attack the metal surfaces. After eight hours of testing, the test objects dry for 16 hours with the door open. A visual check follows. Before and after the corrosion test, the contact resistance of the contacts is recorded according to DIN EN 60512-2-1:2002. Changes that can be attributed to the effects of corrosion are investigated.

Color codes

Conductors are marked in different colors so that different types can be identified more easily. Conductor cross sections and their corresponding color codes are listed in the table.

Conductor cross section [mm ²]	AWG	Color
0.1 - 0.5 0.25 - 0.75	26 - 20 24 - 18	yellow/light green green
0.5 - 1.5 1.5 - 2.5	20 - 16 16 - 14	red blue
4 - 6 10	12 - 10 8	yellow red
16 25	6 4	blue yellow

Tightening torque of terminal block screws

DIN EN 60947-1

Table 4 of the standard specifies the tightening torque to demonstrate the mechanical strength of screw connections/screw terminal blocks.

Although these torques are sufficient for connecting conductors with Phoenix Contact terminal blocks,

the table opposite lists recommended tightening torques which differ from those in this standard and will ensure gas-tight connections that remain stable in the long term.

Phoenix Contact torque screwdrivers can be set to the corresponding torques.

Extract from DIN EN 60947-1/ EN 60947-1, Table 4

The torque according to IEC/EN and the recommended tightening torque for Phoenix Contact terminal blocks are specified.

Head screw with slot

Thread	Torque [Nm]
M 1.6	0.1*
M 2.0	0.2*
M 2.5 (M 2.6)	0.4*
M 3	0.5*
M 4	1.2*
M 4.5	1.8*
M 5	2.0*
M 6	2.5*
M 8	3.5*
M 10	4.0* / 10**
M 12	14**
M 14	19**
M 16	25**
M 20	36**
M 24	50**

* Valid for nuts and screws tightened with screwdrivers.

**Valid for nuts and screws that can be tightened with tools other than screwdrivers.

Color designations

Color	Code
White	WH
Red	RD
Blue	BU
Green	GN
Yellow	YE
Gray	GY
Brown	BN
Orange	OG
Black	BK
Turquoise	TQ
Ivory	IV
Beige	BE
Olive	OL

CABINET add-on mounting material**DIN rails****DIN rails/grounding busbars****Excerpt from IEC 60947-7-2/EN 60947-7-2/DIN EN 60947-7-2/VDE 0611-3**

Phoenix Contact type	Rail profile	Material	Short circuit stability ≥ E CU conductor [mm ²]*	Short-time current resistance 1 s [kA]	Max. permissible thermal nominal current for PEN function [A]
NS 15 UNPERF 2000MM	DIN rail according to EN 60715 -15 x 5.5	Steel	10	1.2	**
NS 15 PERF 2000MM	DIN rail according to EN 60715 -15 x 5.5	Steel	10	1.2	**
NS 15-AL PERF 2000MM	DIN rail, dimensions according to EN 60715 -15 x 5.5	Aluminum	16	1.92	76
NS 32 UNPERF 2000MM	G-profile rail according to EN 60715 – G 32	Steel	35	4.2	**
NS 32 PERF 2000MM	G-profile rail according to EN 60715 – G 32	Steel	35	4.2	**
NS 32-CU/35 QMM UNPERF 2000MM	G-profile rail, dimensions according to EN 60715 – G 32	Copper	120	14.4	269
NS 32-CU/120 QMM UNPERF 2000MM	G-profile rail, similar to EN 60715 – G 32	Copper	150	18.0	309
NS 35/7,5 UNPERF 2000MM	DIN rail according to EN 60715 – 35 x 7.5	Steel	16	1.92	**
NS 35/7,5 PERF 2000MM	DIN rail according to EN 60715 – 35 x 7.5	Steel	16	1.92	**
NS 35/7,5 ZN UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 7.5	Steel	16	1.92	**
NS 35/7,5 ZN PERF 2000MM	DIN rail, similar to EN 60715 – 35 x 7.5	Steel	16	1.92	**
NS 35/7,5 V2A UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 7.5	Steel	16	1.92	**
NS 35/7,5-CU UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 7.5	Copper	50	6.0	150
NS 35/7,5-AL UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 7.5	Aluminum	35	4.2	125
NS 35/15-2,3 UNPERF 2000MM	DIN rail according to EN 60715 – 35 x 15	Steel	50	6.0	**
NS 35/15 UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 15	Steel	25	3.0	**
NS 35/15 PERF 2000MM	DIN rail, similar to EN 60715 – 35 x 15	Steel	25	3.0	**
NS 35/15 ZN UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 15	Steel	25	3.0	**
NS 35/15 ZN PERF 2000MM	DIN rail, similar to EN 60715 – 35 x 15	Steel	25	3.0	**
NS 35/15-CU UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 15	Copper	95	11.4	232
NS 35/15-AL UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 15	Aluminum	70	8.4	192

* Cross sections calculated according to IEC 60439-1/EN 60439-1/DIN EN 60439-1/VDE 0660-500.

** Grounding busbars made from steel are not permitted for the PEN function.

Overview of certification bodies and safety marks

Certification bodies and approvals		Country code	Ex Explosion protection		Country code	Ship classification societies		Country code
	IECCEE CB Scheme (in combination with certifying body)	International		FM Approvals	US		Bureau Veritas	FR
CCA	CENELEC Certification Agreement (CCA inspection report) (in combination with certifying body)	EU		DEKRA Certification B.V.	NL		Germanischer Lloyd AG	DE
	Canadian Standards Association (CSA)	CA		Physikalisch-Technische Bundesanstalt	DE		Lloyd's Register EMEA	GB
	Underwriters Laboratories Inc. (UL)	US		QS Schaffhausen	CH		Nippon Kaiji Kyokai	JP
	Underwriters Laboratories Inc. (UL) - UL approval for Canada -	CA		VTT Expert Services Oy	FI		Det Norske Veritas	NO
	Underwriters Laboratories Inc. (UL) Combined logo - UL approval for the USA and Canada -	US CA		IBExU Institut für Sicherheitstechnik GmbH	DE		Polski Rejestr Statków	PL
	INSIEME PER LA QUALITA'E LA SICUREZZA	IT		TÜV Rheinland do Brasil	BR		Russian Maritime Register of Shipping	RU
	Gosudarstvenny Komitet Standartov (GOST)	RU		Underwriters Laboratories Inc. (UL)	US		Korean Register of Shipping	KR
	DEKRA Certification B.V.	NL		TÜV Nord	DE		American Bureau of Shipping	US
	Österreichischer Verband für Elektrotechnik	AT		DEKRA EXAM GmbH	DE			
	South African Bureau of Standards	ZA						
	electrosuisse SEV Verband für Elektro-, Energie- und Informationstechnik	CH						
	Verband Deutscher Elektrotechniker e.V. (VDE) – Approval of drawings – Reports with production monitoring	DE						
	Berufsgenossenschaft (BG) GS - Geprüfte Sicherheit	DE						
	TÜV Rheinland Industrie Service GmbH	DE						

Note:

Subject to changes that serve the purpose of technical progress.

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C-FC	C-FC 6/M5	3240149	458	C-RC 6/M4 DIN	3240083	454	CARRIER-EMPL 22 (27X18)	0828987	297	CD 60X40 BU	3240313	545
	C-FC 6/M6	3240150	458	C-RC 6/M5 DIN	3240084	454	CARRIER-EMPL 22 (27X27)	0828988	297	CD 60X40 WH	3240628	545
	C-FC 6/M8	3240151	458	C-RC 6/M6 DIN	3240085	454	CARRIER-EMPL 22 (27X8)	0828984	297	CD 60X60	3240193	545
	C-FCI 1,5/M3	3240032	459	C-RC 6/M8 DIN	3240086	454	CARRIER-EMP (1000X15) COVER	0829520	298	CD 60X60 BU	3240314	545
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	C-FCI 1,5/M4	3240034	459	C-RC 70/M6 DIN	3240115	454	CARRIER-EMP (1000X15) TR	0829530	298	CD 60X80	3240199	545
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CRIMPFOX-M CX-3/DIE	1212089	413	CUTFOX 52	1212133	364	EML (15X9)R YE CUS	0824296	273	EML (76,2X6,5)RL YE CUS	0824345	273
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CRIMPFOX-M CX-8/DIE	1212749	413	CUTFOX-FBS	1212124	366	EML (16,5X5)RL	0816113	270	EML (100X40)R	0800286	270
CRIMPFOX-M HS-1/DIE	1212282	413	CUTFOX-LB VDE	1212527	367	EML (16,5X5)RL YE	0816126	271	EML (100X40)R CUS	0802698	272
CRIMPFOX-M HS/DIE	1219092	413	CUTFOX-S VDE	1212207	367	EML (16X7)R	0818001	270	EML (100X40)R SR	0802697	271
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CRIMPFOX-M RC 10/DIE	1212077	413				EML (16X7)R YE	0816731	271	EML (15X6)R YE	0819288	271
CRIMPFOX-M RC 2,5/DIE	1212078	413				EML (16X7)R YE CUS	0824302	273	EML (15X6)R YE CUS	0824348	273
CRIMPFOX-M RC 6/DIE	1212079	413				EML (17,5X8)R	0816744	270	EML (18X7)RL YE	0802733	271
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CRIMPFOX-M RC 1/DIE	1212073	413				EML (17,5X8)R YE	0816757	271	EML (24X3)R	0830291	109
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CRIMPFOX-M RJ45/DIE	1212090	413				EML (17,5X8)RL YE	0816139	271	EML (25,4X12,7)RL	0816087	270
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CRIMPFOX-M SC 2,5/DIE	1212084	413				EML (19X6)R CUS	0824306	272	EML (40X6)R YE	0830482	213
CRIMPFOX-M SC 6-FL/DIE	1212741	413				EML (20X7)R YE	0816773	271	EML (40X6)R CUS	0830487	213
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CRIMPFOX-M SCA 2,5/DIE	1212742	413				EML (20X8)R CUS	0824309	272	EML (50X10)R CUS	0830489	213
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CRIMPFOX-M SR 6-2/DIE	1212472	413	E/AL-NS 35	1201662	499	EML (21,5X21,5)R SR	0816812	271	EML (75X10)R	0830485	213
CRIMPFOX-M SR 6-3/DIE	1212473	413	EM/BK	1401637	499	EML (21,5X21,5)R SR CUS	0824312	273	EML (75X10)R CUS	0830491	213
CRIMPFOX-M TC 10/DIE	1212076	413	EM/K 1	1421659	499	EML (25,4X12,7)R	0816825	270	EML (75X10)R YE	0830486	213
CRIMPFOX-M TC 4/DIE	1212075	413	E/NS 35 N	0800886	499	EML (25,4X12,7)R CUS	0824313	272	EML (75X10)R YE CUS	0830492	213
CRIMPFOX-RC 10	1212061	401	E/UK	1201442	498	EML (25,4X12,7)R YE	0816838	271	EML-ESD (15X15)R	0830566	284
CRIMPFOX-RC 2,5	1212063	400	E/UK 1	1201413	498	EML (25,4X12,7)R YE CUS	0824314	273	EML-ESD (15X15)R CUS	0830590	285
CRIMPFOX-RC 2,5-M	1212723	400	EA 4	0805360	506	EML (26,5X12)R SR	0816854	271	EML-ESD (15X15)RL-T	0830578	285
CRIMPFOX-RC 25	1212065	401	EA 5	1024014	506	EML (26,5X12)R SR CUS	0824315	273	EML-ESD (15X6)R	0830565	284
CRIMPFOX-RC 6	1212710	401	EA 5-WS	1024085	506	EML (26,5X17,5)R SR	0816883	271	EML-ESD (15X6)R CUS	0830589	285
CRIMPFOX-RC 6-M	1212724	400	EA 7	1024250	506	EML (26,5X17,5)R SR CUS	0824318	273	EML-ESD (15X6)RL-T	0830577	285
CRIMPFOX-RCI 1	1212055	398	EA 11	1024263	506	EML (26,5X17,5)R YE	0816896	271	EML-ESD (20X7)R	0830567	284
CRIMPFOX-RCI 1-M	1212727	398	EC 10	3240176	515	EML (26,5X17,5)R YE CUS	0824319	273	EML-ESD (20X7)R CUS	0830591	285
CRIMPFOX-RCI 2,5	1212053	398	EC 10 BK	3240177	515	EML (26,5X18,5)R SR	0816906	271	EML-ESD (20X7)RL-T	0830579	285
CRIMPFOX-RCI 2,5-M	1212728	398	EC 16	3240179	515	EML (26,5X18,5)R SR CUS	0824320	273	EML-ESD (24X4)R	0830568	284
CRIMPFOX-RCI 6	1212057	399	EC 16 BK	3240180	515	EML (26,5X26,5)R SR	0816919	271	EML-ESD (24X4)R CUS	0830592	285
CRIMPFOX-RCI 6-1	1212059	399	EC 16 P TR	3240182	513	EML (26,5X26,5)R SR CUS	0824321	273	EML-ESD (24X4)RL-T	0830580	285
CRIMPFOX-RCI 6-M	1212730	399	EC 2,5 P TR	3240167	512	EML (26,5X7,5)R SR	0816841	271	EML-ESD (25,4X12,7)R	0830570	284
CRIMPFOX-RCI DIN 6	1212729	399	EC 25	3240183	515	EML (26,5X7,5)R SR CUS	0824322	273	EML-ESD (25,4X12,7)R CUS	0830594	285
CRIMPFOX-RCT 16	1212731	402	EC 25 BK	3240184	515	EML (30X20)R	0816922	270	EML-ESD (25,4X12,7)RL-T	0830582	285
CRIMPFOX-RCT 25-1	1212066	402	EC 4	3240168	514	EML (30X20)R CUS	0824323	272	EML-ESD (25X8)R	0830569	284
CRIMPFOX-RCT 70	1212732	402	EC 4 BK	3240169	514	EML (30X20)R YE	0816935	271	EML-ESD (25X8)R CUS	0830593	285
CRIMPFOX-SC 1,5	1212048	404	EC 4 P TR	3240171	513	EML (30X20)R YE CUS	0824324	273	EML-ESD (25X8)RL-T	0830581	285
CRIMPFOX-SC 1,5-M	1212725	404	EC 6	3240172	514	EML (37XE)RL TR	0815716	270	EML-ESD (32X10)R	0830571	284
CRIMPFOX-SC 1,5/DIE	1212049	404	EC 6 BK	3240173	514	EML (38,1X19)RL	0816171	270	EML-ESD (32X10)R CUS	0830595	285
CRIMPFOX-SC 6	1212050	405	EC 6 P TR	3240175	513	EML (38,1X19)RL CUS	0824327	272	EML-ESD (32X10)RL-T	0830583	285
CRIMPFOX-SC 6/DIE	1212051	405	EK 116	0401010	509	EML (38X17)R	0816951	270	EML-ESD (35X6,5)R	0830572	284
CRIMPFOX-SC 6L	1212052	405	EK 135	0401023	509	EML (38X17)R CUS	0824328	272	EML-ESD (35X6,5)R CUS	0830596	285
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CRIMPFOX-SR 6-1	1212467	410	EM-DUO/120/15/GFI	5600462	519	EML (40X15)R SR CUS	0824329	273	EML-ESD (40X15)R	0830573	284
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CRIMPFOX-SR 6-3	1212469	410	EMG 45-SD-D/LA/SI YE	2940825	518	EML (40X25)R CUS	0824330	272	EML-ESD (40X15)RL-T	0830585	285
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CRIMPFOX-TC 4	1212113	406	EML (100X73)R CUS	0824282	272	EML (40X8)R	0816980	270	EML-ESD (45X5)RL-T	0830586	285
CRIMPFOX-TC 4/DIE	1212295	406	EML (100X73)SR	0817112	271	EML (40X8)R CUS	0824332	272	EML-ESD (50X10)R	0830575	284
CRIMPFOX-TC MP	1212510	407	EML (100X73)SR CUS	0824283	273	EML (50,8X25,4)RL	0816184	270	EML-ESD (50X10)R CUS	0830599	285
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CRIMPFOX/ SPR-3	1212036	393	EML (100X73)R YE CUS	0824284	273	EML (51X25)R	0817028	270	EML-ESD (8X8)R	0830564	284
CRIMPFOX/ SPR-2	1212047	396	EML (100X90)R	0817154	270	EML (51X25)R CUS	0824335	272	EML-ESD (8X8)R CUS	0830588	285
CRIMPSET 6	1202072	441	EML (100X90)R CUS	0824285	272	EML (51X25)R SR	0817002	271	EML-ESD (8X8)RL-T	0830576	285
CRIMPSET 6/25 LEER	1204041	441	EML (100X90)R SR	0817141	271	EML (51X25)R SR CUS	0824336	273	EML-HA (100X73)R	0830731	280
CRIMPSET 25	1202580	441	EML (100X90)R SR CUS	0824286	273	EML (51X25)R YE	0817031	271	EML-HA (100X73)R CUS	0830739	281
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CUTFOX 10 120V	1206832	470	EML (101,6X25,4)RL SR	0815790	271	EML (69,8X1,8)RL	0816197	270	EML-HA (100X73)R SR CUS	0830743	281
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PML-GHS103 (13X13)	1014273	351	PML-P107 (D200)	1014204	331	PML-W203 (25X25)	0830441	323	PPS-ST (5,3)	1202629	373
PML-GHS103 (25X25)	1014274	351	PML-P107 (D50)	1014202	331	PML-W203 (50X50)	0830442	323	PPS-ST (5,5X12)L	1202603	373
PML-GHS104 (13X13)	1014275	351	PML-P108 (D100)	1014206	331	PML-W204 (100X100)	0830446	323	PPS-ST (5,5X12)Q	1203411	373
PML-GHS104 (25X25)	1014276	351	PML-P108 (D200)	1014207	331	PML-W204 (200X200)	0830447	323	PPS-ST (6,4)	1202632	373
PML-GHS105 (13X13)	1014277	352	PML-P108 (D50)	1014205	331	PML-W204 (50X50)	0830445	323	PPS-ST (6,5X15)L	1202593	373
PML-GHS105 (25X25)	1014278	352	PML-P109 (D100)	1014209	331	PML-W205 (100X100)	0830449	323	PPS-ST (6,5X15)Q	1203408	373
PML-GHS106 (13X13)	1014279	352	PML-P109 (D200)	1014210	331	PML-W205 (200X200)	0830450	323	PPS-ST (7,0)	1204889	373
PML-GHS106 (25X25)	1014280	352	PML-P109 (D50)	1014208	331	PML-W205 (50X50)	0830448	323	PPS-ST (8,4)	1202726	373
PML-GHS107 (13X13)	1014281	353	PML-P110 (D100)	1014212	332	PML-W300 (105X52)R	0830460	321	PROFIPOL	1209101	434
PML-GHS107 (25X25)	1014282	353	PML-P110 (D200)	1014213	332	PML-W300 (105X52)R CUS	0830501	321	PT/FS 2,8	1406700	462
PML-GHS108 (13X13)	1014283	353	PML-P110 (D50)	1014211	332	PML-W300 (52X26)R	0830458	321	PT/FS 4,8	1670497	462
PML-GHS108 (25X25)	1014284	353	PML-P111 (D100)	1014215	333	PML-W300 (52X26)R CUS	0830499	321	PT/FS 6,3	0604707	462
PML-GHS109 (13X13)	1014285	353	PML-P111 (D200)	1014216	333	PML-W300 (74X37)R	0830459	321	R		
PML-GHS109 (25X25)	1014286	353	PML-P111 (D50)	1014214	333	PML-W300 (74X37)R CUS	0830500	321			
PML-M100 (D100)R	1014181	335	PML-T101 (26X280)R	1014229	342	PML-W301 (105X52)	0830463	324			
PML-M100 (D100)R CUS	1014183	335	PML-T101 (26X280)R CUS	1014249	342	PML-W301 (200X100)	0830464	324			
PML-M100 (D50)R	1014180	335	PML-T101 (52X560)R	1014230	342	PML-W301 (52X26)	0830461	324			
PML-M100 (D50)R CUS	1014182	335	PML-T101 (52X560)R CUS	1014250	342	PML-W301 (74X37)	0830462	324	RVT-AL/ST 2,4/L8	3240548	370
PML-M101 (D100)	1014138	336	PML-T102 (26X280)R	1014231	343	PML-W302 (105X52)	0830467	325	RVT-AL/ST 3,2/10	3240511	370
PML-M101 (D200)	1014139	336	PML-T102 (26X280)R CUS	1014251	343	PML-W302 (200X100)	0830468	325	RVT-AL/ST 3,2/12	3240512	370
PML-M101 (D50)	1014137	336	PML-T102 (52X560)R	1014232	343	PML-W302 (52X26)	0830465	325	RVT-AL/ST 3,2/6	3240509	370
PML-M102 (D100)	1014141	337	PML-T102 (52X560)R CUS	1014252	343	PML-W302 (74X37)	0830466	325	RVT-AL/ST 3,2/8	3240510	370
PML-M102 (D200)	1014142	337	PML-T103 (26X280)R	1014233	343	PML-W303 (105X52)	0830471	325	RVT-AL/ST 3,2/10	3240506	370
PML-M102 (D50)	1014140	337	PML-T103 (26X280)R CUS	1014253	343	PML-W303 (200X100)	0830472	325	RVT-AL/ST 3/12	3240507	370
PML-M103 (D100)	1014144	337	PML-T103 (52X560)R	1014234	343	PML-W303 (52X26)	0830469	325	RVT-AL/ST 3/6	3240504	370
PML-M103 (D200)	1014145	337	PML-T103 (52X560)R CUS	1014254	343	PML-W303 (74X37)	0830470	325	RVT-AL/ST 3/8	3240505	370
PML-M103 (D50)	1014143	337	PML-T104 (26X280)R	1014235	343	PML-W304 (105X52)	0830475	325	RVT-AL/ST 4,8/10	3240520	370
PML-M104 (D100)	1014147	337	PML-T104 (26X280)R CUS	1014255	343	PML-W304 (200X100)	0830476	325	RVT-AL/ST 4,8/12	3240521	370
PML-M104 (D200)	1014148	337	PML-T104 (52X560)R	1014236	343	PML-W304 (52X26)	0830473	325	RVT-AL/ST 4,8/14	3240553	370
PML-M104 (D50)	1014146	337	PML-T104 (52X560)R CUS	1014256	343	PML-W304 (74X37)	0830474	325	RVT-AL/ST 4,8/16	3240522	370
PML-M105 (D100)	1014150	338	PML-T105 (26X280)R	1014237	344	PML-W305 (105X52)	0830479	325	RVT-AL/ST 4,8/6	3240518	370
PML-M105 (D200)	1014151	338	PML-T105 (26X280)R CUS	1014257	344	PML-W305 (200X100)	0830480	325	RVT-AL/ST 4,8/8	3240519	370
PML-M105 (D50)	1014149	338	PML-T105 (52X560)R	1014238	344	PML-W305 (52X26)	0830477	325	RVT-AL/ST 4,8/10	3240515	370
PML-M106 (D100)	1014153	338	PML-T105 (52X560)R CUS	1014258	344	PML-W305 (74X37)	0830478	325	RVT-AL/ST 4/12	3240516	370
PML-M106 (D200)	1014154	338	PML-T106 (26X280)R	1014239	345	PMM (EX20)R	1014303	356	RVT-AL/ST 4/14	3240517	370
PML-M106 (D50)	1014152	338	PML-T106 (26X280)R CUS	1014259	345	PMM (EX20)R CUS	1014318	357	RVT-AL/ST 4/6	3240513	370
PML-M107 (D100)	1014156	339	PML-T106 (52X560)R	1014240	345	PMM (EX20)R SR	1014304	356	RVT-AL/ST 4/8	3240514	370
PML-M107 (D200)	1014157	339	PML-T106 (52X560)R CUS	1014260	345	PMM (EX20)R SR CUS	1014319	357	RVT-PA 4	3240498	543
PML-M107 (D50)	1014155	339	PML-T107 (26X280)R	1014241	345	PMM (EX20)R YE	1014305	356	RVT-PA 6	3240499	543
PML-M108 (D100)	1014159	339	PML-T107 (26X280)R CUS	1014261	345	PMM (EX20)R YE CUS	1014320	357			
PML-M108 (D200)	1014160	339	PML-T107 (52X560)R	1014242	345	PMM (EX25)R	1014306	356			
PML-M108 (D50)	1014158	339	PML-T107 (52X560)R CUS	1014262	345	PMM (EX25)R CUS	1014321	357	S		
PML-M109 (D100)	1014162	339	PML-T108 (26X280)R	1014243	345	PMM (EX25)R SR	1014307	356			
PML-M109 (D200)	1014163	339	PML-T108 (26X280)R CUS	1014263	345	PMM (EX25)R SR CUS	1014322	357			
PML-M109 (D50)	1014161	339	PML-T108 (52X560)R	1014244	345	PMM (EX25)R YE	1014308	356			
PML-M110 (D100)	1014165	340	PML-T108 (52X560)R CUS	1014264	345	PMM (EX25)R YE CUS	1014323	357	SAC BIT HOOD-W 24	1212486	432
PML-M110 (D200)	1014166	340	PML-T109 (26X280)R	1014245	346	PMM (EX30)R	1014309	356	SAC BIT M12-D15	1208432	432
PML-M110 (D50)	1014164	340	PML-T109 (26X280)R CUS	1014265	346	PMM (EX30)R CUS	1014324	357	SAC BIT M12-W14	1212513	432
PML-M111 (D100)	1014168	340	PML-T109 (52X560)R	1014246	346	PMM (EX30)R SR	1014310	356	SAC BIT M8-D10	1208461	432
PML-M111 (D200)	1014169	340	PML-T109 (52X560)R CUS	1014266	346	PMM (EX30)R SR CUS	1014325	357	SAC BIT MIN		

Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page
SD-D/SC	2963310	518	SF-LHEX SET	1212544	431	SK 2,8 REEL P5,08 WH CUS	0825123	101	THERMOMARK CARD	5146464	35
SD-D/SC/GY	2963815	518	SF-M BH	1212070	535	SK 20	3025189	522	THERMOMARK CARD PLUS	5146481	34
SD-D/SC/LA	2964898	518	SF-M SET	1212543	443	SK 20-D	3026887	522	THERMOMARK CARD SET	5147200	41
SD-D/SC/LA/GY	2963491	518	SF-PH 0-60	1212558	423	SK 28	3026997	522	THERMOMARK CARD SET DE CH	5147220	41
SD-D/SC/LA/YE	2963404	518	SF-PH 1-80	1212559	423	SK 28-D	3027006	522	THERMOMARK CARD SET DK DK	5147213	41
SD-D/SC/YE	2963459	518	SF-PH 1-80 S-VDE	1212693	419	SK 3,8 REEL P5 WH CUS	0825124	102	THERMOMARK CARD SET EN	5147201	41
SD-D/SP	2963323	518	SF-PH 2-100	1212560	423	SK 3,8 REEL P5,08 WH CUS	0825125	102	THERMOMARK CARD SET EN BE	5147214	41
SD-D/SP/GY	2963501	518	SF-PH 2-100 S-VDE	1212694	419	SK 3,8 REEL P6,2 WH CUS	0825126	103	THERMOMARK CARD SET ES ES	5147218	41
SD-D/SP/LA	2963307	518	SF-PH 3-150	1212561	423	SK 3,8 REEL P7,5 WH CUS	0825127	103	THERMOMARK CARD SET FR FR	0801591	41
SD-D/SP/LA/GY	2963488	518	SF-PHSL 1-80 S-VDE	1212697	419	SK 3,8 REEL P7,62 WH CUS	0825128	103	THERMOMARK CARD SET HU HU	5147221	41
SD-D/SP/LA/YE	2963475	518	SF-PHSL 1-80 VDE	1212283	423	SK 35	3026463	522	THERMOMARK CARD SET IT IT	5147217	41
SD-D/SP/YE	2963462	518	SF-PHSL 2-100 S-VDE	1212698	419	SK 35-D	3026890	522	THERMOMARK CARD SET PL US	5147215	41
SD-F/SC	2963352	519	SF-PHSL 2-100 VDE	1212288	423	SK 5,0 REEL P7,5 WH CUS	0825131	104	THERMOMARK CARD SET PT PT	5147219	41
SD-F/SC/GY	2963828	519	SF-PZ 0-60	1212562	423	SK 5,0 REEL P7,62 WH CUS	0825132	104	THERMOMARK CARD SET RU RU	5147211	41
SD-F/SC/LA	2963336	519	SF-PZ 1-80	1212563	423	SK U SR:UNGESTANZT	0800145	292	THERMOMARK CARD SET SE SE	5147212	41
SD-F/SC/LA/GY	2963844	519	SF-PZ 1-80 S-VDE	1212695	419	SK U WH:UNGESTANZT	0800129	292	THERMOMARK CARD-UCT-MAG1	5146480	36
SD-F/SC/LA/YE	2963909	519	SF-PZ 2-100	1212564	423	SK U YE:UNGESTANZT	0800132	292	THERMOMARK CARD-UCT-MAG10	0801737	36
SD-F/SP/LA	2963349	519	SF-PZ 2-100 S-VDE	1212696	419	SK U/2,8 WH:UNBEDRUCKT	0803883	100	THERMOMARK CARD-UCT-MAG11	0801738	36
SD-F/SP/LA/GY	2963857	519	SF-PZ 3-150	1212565	423	SK U/3,8 WH:UNBEDRUCKT	0803906	102	THERMOMARK CARD-UCT-MAG12	0830399	36
SD-US/SC/LA/GY	2963860	519	SF-PZSL 1-80 S-VDE	1212699	419	SK U/5,0 WH:UNBEDRUCKT	0803922	104	THERMOMARK CARD-UCT-MAG13	0830400	36
SD-WMTB (100X10)	0826543	221	SF-PZSL 1-80 VDE	1212556	423	SKS 14	3240211	523	THERMOMARK CARD-UCT-MAG14	0830401	36
SD-WMTB (111X10) VA	0826608	222	SF-PZSL 2-100 S-VDE	1212700	419	SKS 14-D	3240214	523	THERMOMARK CARD-UCT-MAG15	0830402	36
SD-WMTB (30X10) VA	0826569	222	SF-PZSL 2-100 VDE	1212557	423	SKS 14-NS35	3240217	523	THERMOMARK CARD-UCT-MAG16	0830403	36
SD-WMTB (47X10) VA	0826572	222	SF-SL 0,4X2,0-60	1212546	417	SKS 14-SNS35	3062799	523	THERMOMARK CARD-UCT-MAG17	0830404	36
SD-WMTB (70X10)	0826530	221	SF-SL 0,4X2,5-75	1212547	417	SKS 20	3240212	523	THERMOMARK CARD-UCT-MAG18	0830405	36
SD-WMTB (70X10) VA	0826585	222	SF-SL 0,5X3,0-80	1212548	417	SKS 20-D	3240215	523	THERMOMARK CARD-UCT-MAG2	5146563	36
SD-WMTB (92X10) VA	0826598	222	SF-SL 0,6X3,5-100	1212549	417	SKS 20-NS35	3240218	523	THERMOMARK CARD-UCT-MAG20	0830751	36
SD-WMTBS (CH) VA	0826640	222	SF-SL 0,6X3,5-100 S-VDE	1212587	418	SKS 20-SNS35	3062809	523	THERMOMARK CARD-UCT-MAG22	0830771	36
SD-WMTBS (CH) YE	0826611	221	SF-SL 0,6X3,5-200	1212550	417	SKS 8	3240210	523	THERMOMARK CARD-UCT-MAG23	0830808	36
SD-WMTBS (NEUTRAL) CC	0826637	221	SF-SL 0,8X4,0-100	1212551	417	SKS 8-D	3240213	523	THERMOMARK CARD-UCT-MAG24	0830809	36
SD-WMTBS (NEUTRAL) VA	0826666	222	SF-SL 0,8X4,0-100 S-VDE	1212588	418	SKS 8-NS35	3240216	523	THERMOMARK CARD-UCT-MAG3	5146613	36
SD-WMTBS (NU) CC	0826527	221	SF-SL 1,0X5,5-125 S-VDE	1212589	418	SKS 8-SNS35	3062786	523	THERMOMARK CARD-UCT-MAG4	5146614	36
SD-WMTBS (NU) VA	0826556	222	SF-SL 1,0X5,5-150	1212552	417	SS-ZB WH	5031171	218	THERMOMARK CARD-UCT-MAG5	5146615	36
SD-WMTBS (S) YE	0826514	221	SF-SL 1,2X6,5-150	1212553	417	SS-ZB WH CUS	0824470	518	THERMOMARK CARD-UCT-MAG6	5146616	36
SD-WMTBS (S) VA	0826653	222	SF-SL/PH SET	1212541	442	SS-ZB YE	5031650	218	THERMOMARK CARD-UCT-MAG7	0801734	36
SD-WMTBS (SY) YE	0826624	221	SF-SL/PH SET VDE	1212539	442	SSMK 60X18	5032439	300	THERMOMARK CARD-UCT-MAG8	0801735	36
SF-ASD 21	1212532	425	SF-SL/PH/PZ-SL SET S-VDE	1212701	419	SSMK 96X30	5032442	300	THERMOMARK CARD-UCT-MAG9	0801736	36
SF-ASD 21 SET 230V	1212530	425	SF-SL/PZ SET	1212542	442	ST-BW	1270608	421	THERMOMARK CARD-US-MAG1	5146451	37
SF-ASD 21/ACC1,5 AH	1212533	425	SF-SL/PZ SET VDE	1212540	442	STP 3,5-2	0830131	110	THERMOMARK ROLL	5146477	38
SF-ASD 21/CHARGER 230V	1212535	425	SF-SLIC 1,2X7,0-125	1212554	417	STP 3,5-3	0830132	110	THERMOMARK ROLL SET	5147300	41
SF-BIT SET	1212545	443	SF-SLIC 1,6X10-175	1212555	417	STP 4-2	0810575	110	THERMOMARK ROLL SET DE CH	5147230	41
SF-BIT-HEX 2,5-50	1212646	429	SF-THEX 10-200	1212644	431	STP 4-2-ZB	3038613	110	THERMOMARK ROLL SET DK DK	5147224	41
SF-BIT-HEX 2-50	1212645	429	SF-THEX 2,5-100	1212638	431	STP 5-2	0809067	110	THERMOMARK ROLL SET EN	5147301	41
SF-BIT-HEX 3-50	1212647	429	SF-THEX 2-100	1212637	431	STP 5-2-ZB	3037643	110	THERMOMARK ROLL SET EN BE	5147225	41
SF-BIT-HEX 4-50	1212648	429	SF-THEX 3-100	1212639	431	STP 5-2/S	0800970	110	THERMOMARK ROLL SET ES ES	5147228	41
SF-BIT-HEX 5-50	1212649	429	SF-THEX 4-150	1212640	431	STP 5-3	0810562	110	THERMOMARK ROLL SET FR FR	0801592	41
SF-BIT-HEX 6-50	1212650	429	SF-THEX 5-150	1212641	431	SZF 0-0,4X2,5	1204504	420	THERMOMARK ROLL SET HU HU	5147231	41
SF-BIT-HEX 8-50	1212651	429	SF-THEX 6-200	1212642	431	SZF 1-0,6X3,5	1204517	420	THERMOMARK ROLL SET IT IT	5147227	41
SF-BIT-PH 1-50	1212579	427	SF-THEX 8-200	1212643	431	SZF 2-0,8X4,0	1204520	420	THERMOMARK ROLL SET PL US	5147226	41
SF-BIT-PH 1-70	1212582	427	SF-TX SET VDE	1212537	442	SZF 3-1,0X5,5	1206612	420	THERMOMARK ROLL SET PT PT	5147229	41
SF-BIT-PH 2-50	1212580	427	SF-TXH SET	1212538	442	SZG 0,6X3,5 VDE	1205121	423	THERMOMARK ROLL SET RU RU	5147222	41
SF-BIT-PH 2-70	1212583	427	SF-UBH	1212590	426	SZG 0,9X6,5 VDE	1205134	423	THERMOMARK ROLL SET SE SE	5147223	41
SF-BIT-PH 3-50	1212581	427	SF-VT VDE	1212598	434	SZK PH0 VDE	1205147	422	THERMOMARK ROLL X1	5146723	39
SF-BIT-PH 3-70	1212584	427	SHN 13	1209923	430	SZK PH1 VDE	1205150	422	THERMOMARK ROLL X1-DISPENSER1014401		
SF-BIT-PHSL 1-70	1212479	427	SHN 5.5	1209855	430	SZK PH2 VDE	1205163	422	THERMOMARK ROLL X1 CUTTER	5146765	39
SF-BIT-PHSL 2-70	1212601	427	SHN 8	1209868	430	SZK PH3 VDE	1212536	422	THERMOMARK ROLL X1 CUTTER/P5146766		
SF-BIT-PZ 1-50	1212591	427	SK 2,5/4,8:FORTL.ZAHLEN	0804853	100	SZK PZ0 VDE	1206447	422	THERMOMARK ROLL X1-CASE	5146724	39
SF-BIT-PZ 1-70	1212594	427	SK 2,8 WH:REEL	0805205	100	SZK PZ1 VDE	1206450	422	THERMOMARK ROLL-CUTTER	5146422	38
SF-BIT-PZ 2-50	1212592	427	SK 3,5/2,8:FORTL.ZAHLEN	0804073	101	SZK PZ2 VDE	1206463	422	THERMOMARK ROLL-CUTTER/P	5146435	38
SF-BIT-PZ 2-70	1212595	427	SK 3,8 WH:REEL	0805218	102	SZK PZ3 VDE	1212599	422	THERMOMARK ROLL-ERH	5146448	38
SF-BIT-PZ 3-50	1212593	427	SK 3,8/1,2:FORTL.ZAHLEN	0804109	101	SZS 0,4X2,5 VDE	1205037	416	THERMOMARK W2	5146147	43
SF-BIT-PZ 3-70	1212596	427	SK 5	3025338	522	SZS 0,5X3,0 VDE	1207404	416	THERMOMARK X1-CASE	5145300	42
SF-BIT-PZSL 1-70	1212603	427	SK 5,0 WH:REEL	0805221	104	SZS 0,6X2,5 VDE	1205040	416	THERMOMARK X1-CUTTER	5145290	42
SF-BIT-PZSL 2-70	1212604	427	SK 5,0/8,2:FORTL.ZAHLEN	0804280	101	SZS 0,6X3,5 VDE	1205053	420	THERMOMARK X1-CUTTER/P	5146244	42
SF-BIT-SL 0,5X3,0-50	1212566	427	SK 5,0/8,3,8:FORTL.ZAHLEN	0804293	102	SZS 0,6X3,5 VDE	1212602	416	THERMOMARK X1.2	5146231	42
SF-BIT-SL 0,5X3,0-70	1212567	427	SK 5-D	3025406	522	SZS 0,8X4,0 VDE	1212508	416	THERMOMARK X1.2-KIT	5146341	42
SF-BIT-SL 0,6X3,5-50	1212568	427	SK 5/3,8:FORTL.ZAHLEN	0804183	102	SZS 1,0X4,0 VDE	1205066	416	THERMOMARK-ERH 500	5146309	38
SF-BIT-SL 0,6X3,5-70	1212569	427	SK 6,2/3,8:FORTL.ZAHLEN	0804374	103	SZS 1,0X5,5 VDE	1209114	416	THERMOMARK-RIBBON 110	5145384	38
SF-BIT-SL 0,8X4,0-50	1212571	427	SK 7,5/3,8:FORTL.ZAHLEN	0804455	103	SZS 1,0X6,5 VDE	1205079	416	THERMOMARK-RIBBON 110 BU	0829544	38
SF-BIT-SL 0,8X4,0-70	1212572	427	SK 7,5/5:FORTL.ZAHLEN	0804468	104	SZS 1,2X8,0 VDE	1205082	416	THERMOMARK-RIBBON 110 GN	0829542	38
SF-BIT-SL 1,0X5,5-50	1212574	427	SK 7,6/2,8:FORTL.ZAHLEN	0804549	103				THERMOMARK-RIBBON 110 RD	0829543	38
SF-BIT-SL 1,0X5,5-70	1212575	427	SK 7,6/2,5:FORTL.ZAHLEN	0804552	104				THERMOMARK-RIBBON 110-EML-HTO-WMBT100342		
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UCT-TMF 8 BU	0829202	88	UCT-WMT (23X4) CUS	0801547	184	UCT5-TM 5 CUS	0829742	132	US-EMLP (17X7)	0828792	258
UCT-TMF 8 BU CUS	0829677	88	UCT-WMT (23X4) GN	0801457	184	UCT5-TM 6	0828752	133	US-EMLP (17X7) CUS	0830079	260
UCT-TMF 8 CUS	0829672	88	UCT-WMT (23X4) GN CUS	0801551	184	UCT5-TM 6 CUS	0829743	133	US-EMLP (17X7) SR	0828878	258
UCT-TMF 8 GN	0829203	88	UCT-WMT (23X4) OG	0801456	184	UCT6M-TM 5	0830756	134	US-EMLP (17X7) SR CUS	0830081	260
UCT-TMF 8 GN CUS	0829678	88	UCT-WMT (23X4) OG CUS	0801550	184	UCT6M-TM 5 CUS	0830762	134	US-EMLP (17X7) YE	0828877	258
UCT-TMF 8 OG	0829200	88	UCT-WMT (23X4) RD	0801455	184	UCT6M-TM 6	0830757	135	US-EMLP (17X7) YE CUS	0830080	260
UCT-TMF 8 OG CUS	0829674	88	UCT-WMT (23X4) RD CUS	0801549	184	UCT6M-TM 6 CUS	0830763	135	US-EMLP (20X9)	0828795	258
UCT-TMF 8 RD	0829199	88	UCT-WMT (23X4) VT	0801459	184	UCT6M-TM 8	0830758	135	US-EMLP (20X9) CUS	0830085	260
UCT-TMF 8 RD CUS	0829673	88	UCT-WMT (23X4) VT CUS	0801552	184	UCT6M-TM 8 CUS	0830764	135	US-EMLP (20X9) SR	0828884	258
UCT-TMF 8 VT	0829201	88	UCT-WMT (23X4) YE	0801454	184	UCT6R-TM 5	0830753	136	US-EMLP (20X9) SR CUS	0830087	260
UCT-TMF 8 VT CUS	0829676	88	UCT-WMT (23X4) YE CUS	0801548	184	UCT6R-TM 5 CUS	0830759	136	US-EMLP (20X9) YE	0828883	258
UCT-TMF 8 YE	0828749	88	UCT-WMT (30X4)	0801422	185	UCT6R-TM 6	0830754	137	US-EMLP (20X9) YE CUS	0830086	260
UCT-TMF 8 YE CUS	0829675	88	UCT-WMT (30X4) BU	0801428	185	UCT6R-TM 6 CUS	0830760	137	US-EMLP (22X22)	0828796	258
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UCT-WMS 3.2 (12X4) CUS	0829951	186	UCT-WMT (30X4) CUS	0801507	185	UCT6R-TM 8 CUS	0830761	137	US-EMLP (22X22) SR	0828886	258
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UCT-WMS 3.2 (12X4) YE CUS	0829952	186	UCT-WMT (30X4) GN CUS	0801511	185	UNIFO-X-CE VDE	1212203	368	US-EMLP (22X22) YE	0828885	258
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UCT-WMS 4.7 (12X5.5) CUS	0829953	186	UCT-WMT (30X4) OG CUS	0801510	185	UNIFO-X-CT 4.8	1212609	369	US-EMLP (27X12.5)	0828798	258
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US-WMT (30X4) BU	0829312	189	WCC 34	3240257	547	WIREFOX-D SR 6-1	1212511	387	WML HF 3(13X10)R CUS	0830824	197
US-WMT (30X4) BU CUS	0829997	189	WCC 38	3240258	547	WIREFOX-E 10	1212706	379	WML HF 3(13X10)R YE	0830813	196
US-WMT (30X4) CUS	0829992	189	WCC 42	3240259	547	WIREFOX-E 16	1212707	379	WML HF 3(13X10)R YE CUS	0830825	197
US-WMT (30X4) GN	0829313	189	WCC 56	3240260	547	WIREFOX-E 4	1212704	378	WML HF 36(25X38)R	0830822	196
US-WMT (30X4) GN CUS	0829998	189	WCC 64	3240261	547	WIREFOX-E 6SC	1212705	379	WML HF 36(25X38)R CUS	0830835	197
US-WMT (30X4) OG	0829309	189	WF 1000	1212149	471	WIREFOX-MP VDE	1212528	383	WML HF 36(25X38)R YE	0830823	196
US-WMT (30X4) OG CUS	0829994	189	WF 1000 120V	1212258	471	WM-CARRIER/B (48X10)LPR	0830423	213	WML HF 36(25X38)R YE CUS	0830836	197
US-WMT (30X4) RD	0829308	189	WF 1000/SB	1212279	471	WM-CARRIER/B (55X15)LPR	0830424	213	WML HF 5(25X10)R	0830814	196
US-WMT (30X4) RD CUS	0829993	189	WG-D HF 10,2	3241101	583	WM-CARRIER/B (85X15)LPR	0830425	213	WML HF 5(25X10)R CUS	0830826	197
US-WMT (30X4) VT	0829311	189	WG-D HF 10,2 BK	3241102	583	WML 3 (13X10)R CUS	0824884	195	WML HF 5(25X10)R YE	0830815	196
US-WMT (30X4) VT CUS	0829996	189	WG-D HF 12,7	3241103	583	WML 5 (25X10)R	0817523	194	WML HF 5(25X10)R YE CUS	0830827	197
US-WMT (30X4) YE	0828957	189	WG-D HF 12,7 BK	3241104	583	WML 5 (25X10)R CUS	0824885	195	WML HF 7,5(25X13)R	0830816	196
US-WMT (30X4) YE CUS	0829995	189	WG-D HF 16	3241105	583	WML 6 (13X13)R	0816252	194	WML HF 7,5(25X13)R CUS	0830828	197
US-WMTB (24X5)	0828771	190	WG-D HF 16 BK	3241106	583	WML 6 (13X13)R CUS	0824886	195	WML HF 7,5(25X13)R YE	0830817	196
US-WMTB (24X5) BU	0829324	190	WG-D HF 20,3	3241107	583	WML 7,5 (13X13)R CUS	0824887	195	WML HF 7,5(25X13)R YE CUS	0830829	197
US-WMTB (24X5) BU CUS	0830009	191	WG-D HF 20,3 BK	3241108	583	WML 7,5 (17X9)R	0828444	194	WML-FLAG 6 (20X10)R	0830711	198
US-WMTB (24X5) CUS	0830004	191	WG-D HF 7,6	3241099	583	WML 7,5 (17X9)R CUS	0828991	195	WML-FLAG 6 (20X10)R CUS	0830715	198
US-WMTB (24X5) GN	0829325	190	WG-D HF 7,6 BK	3241100	583	WML 7,5 (25X13)R CUS	0824888	195	WML-FLAG 6 (30X10)R	0830712	198
US-WMTB (24X5) GN CUS	0830010	191	WG-S HF 120	3241211	565	WML 12 (25X19)R CUS	0824889	195	WML-FLAG 6 (30X10)R CUS	0830716	198
US-WMTB (24X5) OG	0829321	190	WG-S HF 120 BK	3241122	565	WML 14 (25X19)R	0817536	194	WML-FLAGV 6 (20X10)R	0830713	199
US-WMTB (24X5) OG CUS	0830006	191	WG-S HF 15	3241109	565	WML 14 (25X19)R YE	0817549	194	WML-FLAGV 6 (20X10)R CUS	0830717	199
US-WMTB (24X5) RD	0829320	190	WG-S HF 15 BK	3241110	565	WML 14 (38X19)R	0817552	194	WML-FLAGV 6 (30X10)R	0830714	199
US-WMTB (24X5) RD CUS	0830005	191	WG-S HF 150	3241123	565	WML 14 (38X19)R CUS	0824892	195	WML-FLAGV 6 (30X10)R CUS	0830718	199
US-WMTB (24X5) VT	0829323	190	WG-S HF 150 BK	3241124	565	WML 18 (12X12)R	0817507	194	WMS 12,7 (60X20)R	0800369	200
US-WMTB (24X5) VT CUS	0830008	191	WG-S HF 20	3241111	565	WML 18 (12X12)R CUS	0824894	195	WMS 12,7 (60X20)R CUS	0800741	202
US-WMTB (24X5) YE	0828958	190	WG-S HF 20 BK	3241112	565	WML 20 (31X25)R	0828457	194	WMS 12,7 (60X20)R YE	0800403	200
US-WMTB (24X5) YE CUS	0830007	191	WG-S HF 40	3241113	565	WML 20 (31X25)R CUS	0828992	195	WMS 12,7 (60X20)R YE CUS	0800760	203
US-WMTB (29X8)	0828772	190	WG-S HF 40 BK	3241114	565	WML 22 (25X25)R CUS	0824895	195	WMS 12,7 (EX20)R	0800294	204
US-WMTB (29X8) BU	0829331	190	WG-S HF 50	3241115	565	WML 3 (13X10)R	0800073	194	WMS 12,7 (EX20)R BK	0800422	205
US-WMTB (29X8) BU CUS	0830016	191	WG-S HF 50 BK	3241116	565	WML 36 (25X38)R	0817510	194	WMS 12,7 (EX20)R BK CUS	0800730	207
US-WMTB (29X8) CUS	0830011	191	WG-S HF 70	3241117	565	WML 36 (25X38)R CUS	0824896	195	WMS 12,7 (EX20)R CUS	0800707	206
US-WMTB (29X8) GN	0829332	190	WG-S HF 70 BK	3241118	565	WML 7,5 (13X13)R	0800074	194	WMS 12,7 (EX20)R YE	0800305	205
US-WMTB (29X8) GN CUS	0830017	191	WG-S HF 80	3241119	565	WML 7,5 (25X13)R	0800075	194	WMS 12,7 (EX20)R YE CUS	0800719	207
US-WMTB (29X8) OG	0829328	190	WG-S HF 80 BK	3241120	565	WML 12 (25X19)R	0800076	194	WMS 12,7 (EX20)RL	0800325	204
US-WMTB (29X8) OG CUS	0830013	191	WIREFOX 10	1212150	381	WML 14 (25X19)A4	0830693	193	WMS 12,7 (EX20)RL BK	0800432	205
US-WMTB (29X8) RD	0829327	190	WIREFOX 10 VDE	1212366	383	WML 14 (25X19)A4 CUS	0830705	193	WMS 12,7 (EX20)RL YE	0800333	205
US-WMTB (29X8) RD CUS	0830012	191	WIREFOX 10/SB	1212152	379	WML 14 (25X19)A4 YE	0830694	193	WMS 19,1 (60X30)R	0800370	200
US-WMTB (29X8) VT	0829330	190	WIREFOX 16	1212155	381	WML 14 (25X19)A4 YE CUS	0830706	193	WMS 19,1 (60X30)R CUS	0800742	202
US-WMTB (29X8) VT CUS	0830015	191	WIREFOX 16-1	1212157	382	WML 14 (25X19)R CUS	0824890	195	WMS 19,1 (60X30)R YE	0800404	200
US-WMTB (29X8) YE	0828959	190	WIREFOX 16-1/SB	1204944	382	WML 14 (25X19)R YE CUS	0824891	195	WMS 19,1 (60X30)R YE CUS	0800761	203
US-WMTB (29X8) YE CUS	0830014	191	WIREFOX 16/SB	1212153	379	WML 14 (25X19)RL	0830678	194	WMS 19,1 (EX30)R	0800295	204
US-WMTB (44X15)	0828773	190	WIREFOX 2,5	1212368	378	WML 14 (38X19)R YE	0830675	194	WMS 19,1 (EX30)R BK	0800423	205
US-WMTB (44X15) BU	0829338	190	WIREFOX 2,5/SB	1212369	378	WML 14 (38X19)R YE CUS	0830682	195	WMS 19,1 (EX30)R BK CUS	0800731	207
US-WMTB (44X15) BU CUS	0830023	191	WIREFOX 4,5/W	1212370	378	WML 14 (38X19)RL	0830679	194	WMS 19,1 (EX30)R CUS	0800708	206
US-WMTB (44X15) CUS	0830018	191	WIREFOX 4	1212156	380	WML 22 (25X25)R	0800078	194	WMS 19,1 (EX30)R YE	0800306	205
US-WMTB (44X15) GN	0829339	190	WIREFOX 4/SB	1212151	378	WML 22 (35X25)A4	0830695	193	WMS 19,1 (EX30)R YE CUS	0800720	207
US-WMTB (44X15) GN CUS	0830024	191	WIREFOX 6/SC	1212158	381	WML 22 (35X25)A4 CUS	0830707	193	WMS 19,1 (EX30)RL	0800326	204
US-WMTB (44X15) OG	0829335	190	WIREFOX 6/SC/SB	1212314	379	WML 22 (35X25)A4 YE	0830696	193	WMS 19,1 (EX30)RL BK	0800434	205
US-WMTB (44X15) OG CUS	0830020	191	WIREFOX ASI	1212154	383	WML 22 (35X25)A4 YE CUS	0830708	193	WMS 19,1 (EX30)RL YE	0800334	205
US-WMTB (44X15) RD	0829334	190	WIREFOX ASI/SB	1208076	383	WML 3 (13X10)A4	0830687	193	WMS 2,4 (15X4)R	0800379	200
US-WMTB (44X15) RD CUS	0830019	191	WIREFOX FC	1212619	383	WML 3 (13X10)A4 CUS	0830699	193	WMS 2,4 (15X4)R CUS	0800752	202
US-WMTB (44X15) VT	0829337	190	WIREFOX SAC	1212623	382	WML 3 (13X10)A4 YE	0830688	193	WMS 2,4 (15X4)R YE	0800412	200
US-WMTB (44X15) VT CUS	0830022	191	WIREFOX-CX 6,35	1212733	387	WML 3 (13X10)A4 YE CUS	0830700	193	WMS 2,4 (15X4)R YE CUS	0800770	203
US-WMTB (44X15) YE	0828960	190	WIREFOX-D 11	1212160	384	WML 36 (25X38)A4	0830697	193	WMS 2,4 (15X4)RL	0800389	201
US-WMTB (44X15) YE CUS	0830021	191	WIREFOX-D 11/SB	1212312	384	WML 36 (25X38)A4 CUS	0830709	193	WMS 2,4 (15X4)RL X	0800396	201
US2-TM 100	0829268	138	WIREFOX-D 13	1212162	385	WML 36 (25X38)A4 YE	0830698	193	WMS 2,4 (30X4)R	0800373	200
US2-TM 100 CUS	0829950	138	WIREFOX-D 16	1212173	385	WML 46 (25X38)R	0800067	194	WMS 2,4 (30X4)R CUS	0800745	202
USA 10	1201578	503	WIREFOX-D 28	1212174	385	WML 5 (25X10)A4	0830689	193	WMS 2,4 (30X4)R YE	0800407	200
USA 10/4,6	1202713	503	WIREFOX-D 40	1212161	385	WML 5 (25X10)A4 CUS	0830701	193	WMS 2,4 (30X4)R YE CUS	0800765	203
USS 4	1203149	433	WIREFOX-D 40/SB	1212313	385	WML 5 (25X10)A4 YE	0830690	193	WMS 2,4 (30X4)RL	0800386	201
			WIREFOX-D CX-1	1212163	386	WML 5 (25X10)A4 YE CUS	0830702	193	WMS 2,4 (30X4)RXL	0800394	201
			WIREFOX-D CX-1/SB	1212303	386	WML 5 (25X10)R YE	0830673	194	WMS 2,4 (60X4)R	0800363	200
			WIREFOX-D CX-2	1212164	386	WML 5 (25X10)R YE CUS	0830680	195	WMS 2,4 (60X4)R CUS	0800736	202
			WIREFOX-D CX-2/SB	1212304	386	WML 5 (25X10)RL	0830676	194	WMS 2,4 (60X4)R YE	0800398	200
			WIREFOX-D CX-3	1212165	386	WML 6 (13X13)R YE	0830674	194	WMS 2,4 (60X4)R YE CUS	0800755	203
			WIREFOX-D CX-3/SB	1212305	386	WML 6 (13X13)R YE CUS	0830681	195	WMS 2,4 (60X4)RL	0800383	201
			WIREFOX-D CX-4	1212166	386	WML 6 (13X13)RL	0830677	194	WMS 2,4 (60X4)RL X	0800392	201
			WIREFOX-D CX-6/SB	1212308	386	WML HF 14(25X19)R	0830818	196	WMS 2,4 (EX4)R YE	0800300	205
			WIREFOX-D CX-7	1212169	386	WML HF 14(25X19)R CUS	0830831	197	WMS 2,4 (EX4)R YE CUS	0800713	207
			WIREFOX-D CX-7/SB	1212309	386	WML HF 14(25X19)R YE	0830819	196	WMS 2,4 (EX4)RL	0800319	204
			WIREFOX-D CX-8	1212170	386	WML HF 14(25X19)R YE CUS	0830832	197	WMS 2,4 (EX4)RL BK	0800427	205
V			WIREFOX-D CX-6/SB	1212308	386	WML HF 14(25X19)R	0830818	196	WMS 2,4 (EX4)R YE	0800300	205
			WIREFOX-D CX-7	1212169	386	WML HF 14(25X19)R CUS	0830831	197	WMS 2,4 (EX4)R YE CUS	0800713	207
			WIREFOX-D CX-7/SB	1212309	386	WML HF 14(25X19)R YE	0830819	196	WMS 2,4 (EX4)RL	0800319	204
			WIREFOX-D CX-8	1212170							

Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page	Type	Order No.	Page
WMS 25.4 (60X40)R YE CUS	0800762	203	WMS 6.4 (30X10)R YE CUS	0800768	203	WP-BASE A M32	3241086	567	WP-FS IP68 PG29	3241171	570
WMS 25.4 (EX40)R	0800296	204	WMS 6.4 (60X10)R	0800367	200	WP-BASE A M40	3241087	567	WP-FS IP68 PG36	3241172	570
WMS 25.4 (EX40)R BK	0800424	205	WMS 6.4 (60X10)R CUS	0800739	202	WP-BASE A PG16	3241079	567	WP-FS IP68 PG7	3241166	570
WMS 25.4 (EX40)R BK CUS	0800732	207	WMS 6.4 (60X10)R YE	0800401	200	WP-BASE A PG21	3241080	567	WP-FS IP68 PG9	3241167	570
WMS 25.4 (EX40)R CUS	0800709	206	WMS 6.4 (60X10)R YE CUS	0800758	203	WP-BASE A PG29	3241081	567	WP-G BRASS IP40 M10	3241044	563
WMS 25.4 (EX40)R YE	0800308	205	WMS 6.4 (EX10)R	0800292	204	WP-BASE A PG36	3241082	567	WP-G BRASS IP40 M12	3241045	563
WMS 25.4 (EX40)R YE CUS	0800722	207	WMS 6.4 (EX10)R BK	0800419	205	WP-BASE C PA HF 10,0 BK	3240958	566	WP-G BRASS IP40 M16	3241046	563
WMS 25.4 (EX40)RL	0800327	204	WMS 6.4 (EX10)R BK CUS	0800728	207	WP-BASE C PA HF 13,0 BK	3240959	566	WP-G BRASS IP40 M20	3241047	563
WMS 25.4 (EX40)RL BK	0800435	205	WMS 6.4 (EX10)R CUS	0800704	206	WP-BASE C PA HF 15,8 BK	3240960	566	WP-G BRASS IP40 M25	3241048	563
WMS 25.4 (EX40)RL YE	0800335	205	WMS 6.4 (EX10)R YE	0800303	205	WP-BASE C PA HF 21,2 BK	3240961	566	WP-G BRASS IP40 M32	3241049	563
WMS 3.2 (15X5)R	0800380	200	WMS 6.4 (EX10)R YE CUS	0800716	207	WP-BASE C PA HF 28,2 BK	3240962	566	WP-G BRASS IP40 M40	3241050	563
WMS 3.2 (15X5)R CUS	0800753	202	WMS 6.4 (EX10)RL	0800322	204	WP-BASE C PA HF 34,5 BK	3240963	566	WP-G BRASS IP40 PG11	3241039	562
WMS 3.2 (15X5)R YE	0800413	200	WMS 6.4 (EX10)RL BK	0800430	205	WP-BASE C PA HF 42,5 BK	3240964	566	WP-G BRASS IP40 PG16	3241040	562
WMS 3.2 (15X5)R YE CUS	0800771	203	WMS 6.4 (EX10)RL YE	0800331	205	WP-BASE HF 13	3240966	567	WP-G BRASS IP40 PG21	3241041	562
WMS 3.2 (15X5)RL	0800390	201	WMS 9.5 (30X16)R	0800377	200	WP-BASE HF 14	3240967	567	WP-G BRASS IP40 PG29	3241042	562
WMS 3.2 (30X5)R	0800374	200	WMS 9.5 (30X16)R CUS	0800751	202	WP-BASE HF 15,8	3240968	567	WP-G BRASS IP40 PG36	3241043	562
WMS 3.2 (30X5)R CUS	0800746	202	WMS 9.5 (30X16)R YE	0800411	200	WP-BASE HF 17	3240969	567	WP-G BRASS IP40 PG7	3241037	562
WMS 3.2 (30X5)R YE	0800408	200	WMS 9.5 (30X16)R YE CUS	0800769	203	WP-BASE HF 22	3240970	567	WP-G BRASS IP40 PG9	3241038	562
WMS 3.2 (30X5)R YE CUS	0800766	203	WMS 9.5 (60X16)R	0800368	200	WP-BASE HF 29	3240971	567	WP-G BRASS IP65 M10	3241058	564
WMS 3.2 (30X5)RL	0800387	201	WMS 9.5 (60X16)R CUS	0800740	202	WP-BASE HF 37	3240972	567	WP-G BRASS IP65 M12	3241059	564
WMS 3.2 (60X5)R	0800364	200	WMS 9.5 (60X16)R YE	0800402	200	WP-BASE HF 45	3240973	567	WP-G BRASS IP65 M16	3241060	564
WMS 3.2 (60X5)R CUS	0800737	202	WMS 9.5 (60X16)R YE CUS	0800759	203	WP-BASE HF 9-10	3240965	567	WP-G BRASS IP65 M20	3241061	564
WMS 3.2 (60X5)R YE	0800399	200	WMS 9.5 (EX16)R	0800293	204	WP-CN BRASS M10	3241145	569	WP-G BRASS IP65 M25	3241062	564
WMS 3.2 (60X5)R YE CUS	0800756	203	WMS 9.5 (EX16)R BK	0800421	205	WP-CN BRASS M12	3241146	569	WP-G BRASS IP65 M32	3241063	564
WMS 3.2 (60X5)RL	0800384	201	WMS 9.5 (EX16)R BK CUS	0800729	207	WP-CN BRASS M16	3241147	569	WP-G BRASS IP65 M40	3241064	564
WMS 3.2 (EX5)R	0800290	204	WMS 9.5 (EX16)R CUS	0800706	206	WP-CN BRASS M20	3241148	569	WP-G BRASS IP65 PG11	3241053	564
WMS 3.2 (EX5)R BK	0800416	205	WMS 9.5 (EX16)R YE	0800304	205	WP-CN BRASS M25	3241149	569	WP-G BRASS IP65 PG16	3241054	564
WMS 3.2 (EX5)R BK CUS	0800726	207	WMS 9.5 (EX16)R YE CUS	0800717	207	WP-CN BRASS M32	3241150	569	WP-G BRASS IP65 PG21	3241055	564
WMS 3.2 (EX5)R CUS	0800702	206	WMS 9.5 (EX16)RL	0800324	204	WP-CN BRASS M40	3241151	569	WP-G BRASS IP65 PG29	3241056	564
WMS 3.2 (EX5)R YE	0800301	205	WMS 9.5 (EX16)RL BK	0800431	205	WP-CN BRASS PG11	3241154	569	WP-G BRASS IP65 PG36	3241057	564
WMS 3.2 (EX5)R YE CUS	0800714	207	WMS 9.5 (EX16)RL YE	0800332	205	WP-CN BRASS PG16	3241155	569	WP-G BRASS IP65 PG7	3241051	564
WMS 3.2 (EX5)RL	0800320	204	WMT 2.4 (15X4)R	0816281	210	WP-CN BRASS PG21	3241156	569	WP-G BRASS IP65 PG9	3241052	564
WMS 3.2 (EX5)RL BK	0800428	205	WMT 2.4 (15X4)R CUS	0824927	210	WP-CN BRASS PG29	3241157	569	WP-G HF IP66 M10 BK	3240895	551
WMS 3.2 (EX5)RL YE	0800329	205	WMT 3.5 (15X5)R	0817222	210	WP-CN BRASS PG36	3241158	569	WP-G HF IP66 M12 BK	3240896	551
WMS 38.1 (60X60)R	0800372	200	WMT 3.5 (15X5)R CUS	0824928	210	WP-CN BRASS PG7	3241152	569	WP-G HF IP66 M16 BK	3240897	551
WMS 38.1 (60X60)R CUS	0800744	202	WMT 4.2 (15X6)R	0817235	210	WP-CN BRASS PG9	3241153	569	WP-G HF IP66 M20 BK	3240898	551
WMS 38.1 (60X60)R YE	0800406	200	WMT 4.2 (15X6)R CUS	0824929	210	WP-CN PA M12	3241132	568	WP-G HF IP66 M25 BK	3240899	551
WMS 38.1 (60X60)R YE CUS	0800764	203	WMT 5.5 (15X8)R	0817248	210	WP-CN PA M16	3241133	568	WP-G HF IP66 M32 BK	3240900	551
WMS 38.1 (EX60)R	0800298	204	WMT 5.5 (15X8)R CUS	0824930	210	WP-CN PA M20	3241134	568	WP-G HF IP66 M40 BK	3240901	551
WMS 38.1 (EX60)R BK	0800425	205	WMT 8.4 (17X10)R	0817251	210	WP-CN PA M25	3241135	568	WP-G HF IP66 PG11 BK	3240890	550
WMS 38.1 (EX60)R BK CUS	0800733	207	WMT 8.4 (17X10)R CUS	0824931	210	WP-CN PA M32	3241136	568	WP-G HF IP66 PG16 BK	3240891	550
WMS 38.1 (EX60)R CUS	0800710	206	WMTB 2.4 (24X8)R	0816278	211	WP-CN PA M40	3241137	568	WP-G HF IP66 PG21 BK	3240892	550
WMS 38.1 (EX60)R YE	0800309	205	WMTB 2.4 (24X8)R CUS	0824932	211	WP-CN PA PG11	3241140	569	WP-G HF IP66 PG29 BK	3240893	550
WMS 38.1 (EX60)R YE CUS	0800723	207	WMTB 2.4 (35X15)R	0817316	211	WP-CN PA PG16	3241141	569	WP-G HF IP66 PG36 BK	3240894	550
WMS 4.8 (15X9)R	0800382	200	WMTB 2.4 (35X15)R CUS	0824933	211	WP-CN PA PG21	3241142	569	WP-G HF IP66 PG7 BK	3240888	550
WMS 4.8 (15X9)R CUS	0800754	202	WMTB 4.2 (40X12)R	0830407	212	WP-CN PA PG29	3241143	569	WP-G HF IP66 PG9 BK	3240889	550
WMS 4.8 (15X9)R YE	0800414	200	WMTB 4.2 (40X12)R CUS	0830413	212	WP-CN PA PG36	3241144	569	WP-G HF IP69K M10 BK	3240881	551
WMS 4.8 (15X9)R YE CUS	0800772	203	WMTB 4.2 (40X12)R YE	0830408	212	WP-CN PA PG7	3241138	569	WP-G HF IP69K M12 BK	3240882	551
WMS 4.8 (15X9)RL	0800391	201	WMTB 4.2 (40X12)R YE CUS	0830414	212	WP-CN PA PG9	3241139	569	WP-G HF IP69K M16 BK	3240883	551
WMS 4.8 (15X9)RXL	0800397	201	WMTB 5.5 (15X15)R	0830409	212	WP-EC TPE HF 10,0 BK	3240974	549	WP-G HF IP69K M20 BK	3240884	551
WMS 4.8 (30X9)R	0800375	200	WMTB 5.5 (15X15)R CUS	0830415	212	WP-EC TPE HF 13,0 BK	3240975	549	WP-G HF IP69K M25 BK	3240885	551
WMS 4.8 (30X9)R CUS	0800748	202	WMTB 5.5 (15X15)R YE	0830410	212	WP-EC TPE HF 15,8 BK	3240976	549	WP-G HF IP69K M32 BK	3240886	551
WMS 4.8 (30X9)R YE	0800409	200	WMTB 5.5 (15X15)R YE CUS	0830416	212	WP-EC TPE HF 21,2 BK	3240977	549	WP-G HF IP69K M40 BK	3240887	551
WMS 4.8 (30X9)R YE CUS	0800767	203	WMTB 5.5 (25X25)R	0830411	212	WP-EC TPE HF 28,5 BK	3240978	549	WP-G HF IP69K PG11 BK	3240876	551
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WMS 4.8 (4.8X30)R CUS	0800395	201	WMTB 5.5 (25X25)R YE	0830412	212	WP-EC TPE HF 42,5 BK	3240980	549	WP-G HF IP69K PG21 BK	3240878	551
WMS 4.8 (60X9)R	0800366	200	WMTB 5.5 (25X25)R YE CUS	0830418	212	WP-FS HF IP68 M10	3241173	571	WP-G HF IP69K PG29 BK	3240879	551
WMS 4.8 (60X9)R CUS	0800738	202	WMTB-AL (29X8)	0830805	161	WP-FS HF IP68 M12	3241174	571	WP-G HF IP69K PG36 BK	3240880	551
WMS 4.8 (60X9)R YE	0800400	200	WMTB-AL (29X8) CUS	0830807	161	WP-FS HF IP68 M16	3241175	571	WP-G HF IP69K PG7 BK	3240874	551
WMS 4.8 (60X9)R YE CUS	0800757	203	WMTB-AL (40X15)	0830524	161	WP-FS HF IP68 M20	3241176	571	WP-G HF IP69K PG9 BK	3240875	551
WMS 4.8 (60X9)RL	0800385	201	WMTB-AL (40X15) CUS	0830526	161	WP-FS HF IP68 M25	3241177	571	WP-G HF IP69K M16 BK	3240893	551
WMS 4.8 (60X9)RXL	0800393	201	WMTB-AL (60X15)	0830525	161	WP-FS HF IP68 M32	3241178	571	WP-G HF IP69K M20 BK	3240894	551
WMS 4.8 (EX9)R	0800291	204	WMTB-AL (60X15) CUS	0830527	161	WP-FS HF IP68 M40	3241179	571	WP-G HF IP69K M25 BK	3240897	551
WMS 4.8 (EX9)R BK	0800418	205	WMTB-AL (D30)	0830804	161	WP-FS HF IP68 PG11	3241182	571	WP-G HF IP69K PG20 BK	3240898	551
WMS 4.8 (EX9)R BK CUS	0800727	207	WMTB-AL (D30) CUS	0830806	161	WP-FS HF IP68 PG16	3241183	571	WP-G HF IP69K PG25	3240899	551
WMS 4.8 (EX9)R CUS	0800703	206	WMTW 10X4R	0831000	209	WP-FS HF IP68 PG21	3241184	571	WP-G HF IP69K M32	3241000	551
WMS 4.8 (EX9)R YE	0800302	205	WMTW 10X4R CUS	0831008	209	WP-FS HF IP68 PG29	3241185	571	WP-G HF IP69K PG40	3241001	551
WMS 4.8 (EX9)R YE CUS	0800715	207	WMTW 10X4R YE	0831001	209	WP-FS HF IP68 PG36	3241186	571	WP-G HF IP69K PG9 BK	3240990	551
WMS 4.8 (EX9)RL	0800321	204	WMTW 10X4R YE CUS	0831009	209	WP-FS HF IP68 PG7	3241187	571	WP-G HF IP69K PG16 BK	3240991	551
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WMS 4.8 (EX9)RL YE	0800330	205	WMTW 15X4R CUS	0831010	209	WP-FS HF IP68 M10	3241189	570	WP-G HF IP69K PG29	3240993	551
WMS 4.8 (EX9)RL YE CUS	0800299	204	WMTW 15X4R YE	0831003	209	WP-FS HF IP68 M12	3241190	570	WP-G HF IP69K PG36	3240994	551
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WP-GT BRASS M25	3241034	563	WP-SC PA HF 28,5 BK	3240985	549	WT-HF 2,6X160 BK-L	3240738	575	WT-STEEL SH 4,6X679	3240825	581
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WP-GT BRASS PG16	3241026	563	WP-SPIRAL PU C HF 14	3240857	557	WT-HF 2,6X200 BK-L	3240742	575	WT-STEEL SH 7,9X360	3240828	581
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WP-GT BRASS PG36	3241029	563	WP-SPIRAL PU C HF 27	3240860	557	WT-HF 3,6X140 BK	3240745	575	WT-STEEL SH 7,9X838	3240766	581
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WP-GT PP HF PG11	3241004	559	WP-SPIRAL PVC C 45	3240855	556	WT-HF 3,6X290 BK-L	3240754	575	X		
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WP-GT PP HF PG21	3241006	559	WP-STEEL PVC C 14	3240868	564	WT-HF 4,5X160	3240756	574			
WP-GT PP HF PG29	3241007	559	WP-STEEL PVC C 17	3240869	564	WT-HF 4,5X160 BK	3240757	575			
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ZB 3,5,LGS:FORTL.ZAHLEN	0801404	68	ZBF 5:UNBEDRUCKT	0808642	77						
ZB 3,5,QR:FORTL.ZAHLEN	0801405	68	ZBF 6 CUS	0825027	77						
ZB 3,5:UNBEDRUCKT	0829414	68	ZBF 6,LGS:FORTL.ZAHLEN	0808749	77						
ZB 4 :UNBEDRUCKT	0805001	69	ZBF 6,LGS:GERADE ZAHLEN	0810834	77						
ZB 4 CUS	0824951	69	ZBF 6,LGS:UNGERADE ZAHLEN	0810876	77						
ZB 4,LGS:FORTL.ZAHLEN	0805739	69	ZBF 6,QR:FORTL.ZAHLEN	0808765	77						
ZB 4,QR:FORTL.ZAHLEN	0805807	69	ZBF 6,WH-100:UNBEDRUCKT	0808736	77						
ZB 4/WH-100:UNBEDRUCKT	0805810	69	ZBF 6:UNBEDRUCKT	0808710	77						
ZB 5 :UNBEDRUCKT	1050004	69	ZBF 7,5 CUS	0825028	78						
ZB 5 CUS	0824962	69	ZBF 7,5,LGS:FORTL.ZAHLEN	0809955	78						
ZB 5,08 CUS	0824963	69	ZBF 7,5,QR:FORTL.ZAHLEN	0809968	78						
ZB 5,08,LGS:FORTL.ZAHLEN	0809803	69	ZBF 7,5:UNBEDRUCKT	0809942	78						
ZB 5,08,LGS:L1-N,PE	0809832	69	ZBF 8 CUS	0825030	78						
ZB 5,08,LGS:U-N	0809845	69	ZBF 8,LGS:FORTL.ZAHLEN	0808804	78						
ZB 5,08,QR:FORTL.ZAHLEN	0809858	69	ZBF 8:UNBEDRUCKT	0808781	78						
ZB 5,08:UNBEDRUCKT	0809793	69	ZBF 9 CUS	0829130	79						
ZB 5,LGS:FORTL.ZAHLEN	1050017	69	ZBF 9:UNBEDRUCKT	0829129	79						
ZB 5,LGS:GLEICHE ZAHLEN	1050033	69	ZBF 10 CUS	0825031	79						
ZB 5,LGS:L1-N,PE	1050415	69	ZBF10,LGS:FORTL.ZAHLEN	0810009	79						
ZB 5,QR:FORTL.ZAHLEN	1050020	69	ZBF10,QR:FORTL.ZAHLEN	0810025	79						
ZB 5/WH-100:UNBEDRUCKT	5060906	69	ZBF10:UNBEDRUCKT	0809997	79						
ZB 6 CUS	0824992	70									
ZB 6,6,LGS:FORTL.ZAHLEN	1052345	70									
ZB 6,6:UNBEDRUCKT	1052332	70									
ZB 6,LGS:FORTL.ZAHLEN	1051016	70									
ZB 6,LGS:GLEICHE ZAHLEN	1051032	70									
ZB 6,LGS:L1-N,PE	1051414	70									
ZB 6,LGS:U-N	1051430	70									
ZB 6,QR:FORTL.ZAHLEN	1051029	70									
ZB 6:UNBEDRUCKT	1051003	70									
ZB 7,5 CUS	0824994	71									
ZB 7,5:UNBEDRUCKT	0803948	71									
ZB 7,62 CUS	0824997	71									
ZB 7,62,LGS:FORTL.ZAHLEN	1054233	71									
ZB 7,62/WH-100:UNBEDRUCKT	5060922	71									
ZB 7,62:UNBEDRUCKT	1054000	71									
ZB 8 CUS	0825011	71									
ZB 8,LGS:FORTL.ZAHLEN	1052015	71									
ZB 8,LGS:L1-N,PE	1052413	71									
ZB 8,QR:FORTL.ZAHLEN	1052028	71									
ZB 8/WH-100:UNBEDRUCKT	5060896	71									
ZB 8:UNBEDRUCKT	1052002	71									
ZB 9 CUS	0829128	72									
ZB 9:UNBEDRUCKT	0829127	72									
ZB10,LGS:FORTL.ZAHLEN	1053014	72									
ZB10,LGS:GLEICHE ZAHLEN	1053030	72									
ZB10,LGS:L1-N,PE	1053412	72									
ZB10,LGS:U-N	1053438	72									
ZB10,QR:FORTL.ZAHLEN	1053027	72									

